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OM protein - protein search, using sw model

Run on: July 26, 2005, 15:58:52 ; Search time 30.7159 seconds
(without alignments)
1011.008 Million cell updates/sec

Title: US-10-706-691-16

Perfect score: 2122

Sequence: 1 MKRREGALSRSALRLAPF.....TAGVHIIREQDEAGPVEISA 416

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA.*

- 1: /cgn2_6/ptodata/1/iaa/5A COMB.pep.*
- 2: /cgn2_6/ptodata/1/iaa/5B COMB.pep.*
- 3: /cgn2_6/ptodata/1/iaa/6A COMB.pep.*
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- 5: /cgn2_6/ptodata/1/iaa/PCTUS COMB.pep.*
- 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	282	13.3	450	4	US-09-905-125A-320
3	282	13.3	450	4	US-09-902-775A-320
4	282	13.3	450	4	US-09-906-700-320
5	282	13.3	450	4	US-09-903-603A-320
6	282	13.3	450	4	US-09-904-920A-320
7	282	13.3	450	4	US-09-909-064-320
8	282	13.3	450	4	US-09-905-381A-320
9	282	13.3	450	4	US-09-906-618-320
10	281	13.2	58	4	US-09-513-999C-5729
11	220	10.4	351	3	US-08-466-465-6
12	220	10.4	351	4	US-08-730-465-6
13	202	9.5	316	4	US-09-397-243D-13
14	199.5	9.4	1101	3	US-08-986-485-2
15	197.5	9.3	365	3	US-08-928-383B-26
16	196.5	9.3	319	1	US-08-597-495B-22
17	196.5	9.3	319	3	US-08-068-051A-22
18	196.5	9.3	319	4	US-08-336-536-67
19	196.5	9.3	319	4	US-08-254-465A-6
20	196.5	9.3	319	4	US-09-953-499-6
21	196.5	9.3	387	3	US-09-175-928-2
22	193	9.1	328	4	US-09-949-016-6428
23	193	9.1	329	4	US-09-149-476-483
24	193	9.1	332	4	US-09-949-016-7327
25	191.5	9.0	365	3	US-08-928-383B-23
26	191.5	9.0	365	3	US-08-928-383B-24
27	190	9.0	383	4	US-09-949-016-11050

Sequence 5, Appli
Sequence 2, Appli
Sequence 3, Appli
Sequence 2, Appli
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Sequence 6064, Ap
Sequence 4, Appli
Sequence 24, Appli
Sequence 26, Appli
Sequence 26, Appli
Sequence 26, Appli
Sequence 26, Appli
Sequence 6, Appli
Sequence 24, Appli
Sequence 4, Appli
Sequence 24, Appli
Sequence 24, Appli
Sequence 189, App
Sequence 331, App

ALIGNMENTS

RESULT 1

US-09-907-794A-320
; Sequence 320, Application US/09907794A

; Patent No. 6635468

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kijavini, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/907,794A

; PRIOR FILING DATE: 2001-07-17

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-907-794A-320

Query Match 13.3%; Score 282; DB 4; Length 450;
Best Local Similarity 31.7%; Pred. No. 1.2e-14;
Matches 72; Conservative 43; Mismatches 102; Indels 10; Gaps 7;

QY 17 LAPFVYLLLIQTDPLEGNITSPVRLIHGTGKSAALLSVQYS--STSSDRPVVKQLKR- 73
DB 3 LKVTFTLSPATGACSLKVTVPSTHVGVRGQALYLPVHYGHTPASDIQII-WLPERP 61

QY 74 -DKPVTVVQSIGTEVIGTLRPDYDRIRLF-ENGSLLSLDLQADGTYEVEISIT-DDT 130
DB 62 HTMPKYLGSVNVKSVVDDL--EYQHKFTMPPNASLLINPLQFPDEGNYIVKVNIOGNGT 119

QY 131 FTGEKTNLTVDVPISRPQVLV-ASTTVLELSEAFNLCSHENGTKPSYTWLKDQKPLN 189
DB 120 LSASQKIQTVDVDPVTKPVVQIHPFPGAVYGVGNMTLTCHVEGTRLAYQWLKNGRPVHT 179

QY 190 DSRMLLSPDQKVLITITRVLMEDDLLSCMVENPISQGRSLPVKITVY 236
DB 180 SSTYSFSPQNTLHIAPTVKEDIGNYSLVRNPVSEMSDIIMPIIY 226

RESULT 2
US-09-905-125A-320
; Sequence 320, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Christ
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,125A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-905-125A-320

Query Match 13.3%; Score 282; DB 4; Length 450;
Best Local Similarity 31.7%; Pred. No. 1.2e-14;
Matches 72; Conservative 43; Mismatches 102; Indels 10; Gaps 7;

QY 17 LAPFVYLLLIQTDPLEGNITSPVRLIHGTGKSAALLSVQYS--STSSDRPVVKQLKR- 73
DB 3 LKVTFTLSPATGACSLKVTVPSTHVGVRGQALYLPVHYGHTPASDIQII-WLPERP 61

QY 74 -DKPVTVVQSIGTEVIGTLRPDYDRIRLF-ENGSLLSLDLQADGTYEVEISIT-DDT 130
DB 62 HTMPKYLGSVNVKSVVDDL--EYQHKFTMPPNASLLINPLQFPDEGNYIVKVNIOGNGT 119

QY 131 FTGEKTNLTVDVPISRPQVLV-ASTTVLELSEAFNLCSHENGTKPSYTWLKDQKPLN 189
DB 120 LSASQKIQTVDVDPVTKPVVQIHPFPGAVYGVGNMTLTCHVEGTRLAYQWLKNGRPVHT 179

QY 190 DSRMLLSPDQKVLITITRVLMEDDLLSCMVENPISQGRSLPVKITVY 236
DB 180 SSTYSFSPQNTLHIAPTVKEDIGNYSLVRNPVSEMSDIIMPIIY 226

RESULT 3
US-09-902-775A-320

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; Sequence 320, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,775A
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-902-775A-320
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Query Match 13.3%; Score 282; DB 4; Length 450;
Best Local Similarity 31.7%; Pred. No. 1.2e-14;
Matches 72; Conservative 43; Mismatches 102; Indels 10; Gaps 7;

Qy 17 LAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSAIISVQYS--STSSDRPVVKWQLKR- 73
Db 3 LKVFTEFLSFATGACSGLKVTVPSTHTVGVGRQALYLPVHYGFHTPASDIQII-WLPERP 61
Qy 74 -DKPVTVVQSIGTEVIGTLRPDYRDRIRLP-ENGSIILSLDLADEGTYYEISIT-DDT 130
Db 62 HTMPKYLGSVNKSWPDL--EYQHKFTMPPPNASLLINPLQFFDEGNYIYKVNIOQNGT 119
Qy 131 FTGKTTNLTVDPISRPQVLV-ASTTVLELSBAFTLNCSEHNTKPSYTWLKDQKPLLN 189
Db 120 LSASQKIQVTVDVTPVQIHPPSGAVEYVGNMTLTCHVEGGTRLAYQWLKNGRPVHT 179
Qy 190 DSRMLSPDQKVLITITRLMEDDDLYSCWVENPISQGRSLPVKITVY 236
Db 180 SSTYSFSPQNTLHIAPVTKEDIGNYSCLVRNPVSEMSDIIMPIIY 226

RESULT 4
US-09-906-700-320
; Sequence 320, Application US/09906700
; Patent No. 6723535
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,700
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
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; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
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; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-906-700-320

Query Match 13.3%; Score 282; DB 4; Length 450;
Best Local Similarity 31.7%; Pred. No. 1.2e-14;
Matches 72; Conservative 43; Mismatches 102; Indels 10; Gaps 7;

Qy 17 LAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSAALLSVOYS--STSSDRPVVKWLKR- 73
Db 3 LKVTTFSLFATGACSLGKVTVPESHVGVGQALYLPVHYGFTPTASDIQII-WLPERP 61

Qy 74 -DKPVTVVQSIGTEVIGTLRPDYDRIRLF-ENGSLLLSDLOLADEGTVEISIT-DDT 130
Db 62 HTMPKYLGSVNKSVVPDL--EYQHKFTMPPNASLLINLPQFPDEGNYIVKVNIOGNGT 119

Qy 131 FTGEKTNLTVDVPISRPQVLV-ASTTVLESEAFNLNCSHENGTKPSYTWLKDGPPLN 189
Db 120 LSASQKIQTVDVDFVTKPVQIHPSPGAVEYVGNMTLTCHVEGGTRLAYQWLKNGRPVHT 179

Qy 190 DSRMLSPDQKVLITITRVLMEDDDLXSCMVENPISQGRSLPVKITVY 236
Db 180 SSTYSFSPQNTLHIAPTVKEDIGNYSLVRNPVSEMSDIIMPIY 226

RESULT 5
US-09-903-603A-320
; Sequence 320, Application US/09903603A
; Patent No. 6767995
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: GNE.1618P2C12
; CURRENT APPLICATION NUMBER: US/09/903,603A
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
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; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-903-603A-320

Query Match 13.3%; Score 282; DB 4; Length 450;
Best Local Similarity 31.7%; Pred. No. 1.2e-14;
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Db 3 LKVTTFSLFATGACSLGKVTVPESHVGVGQALYLPVHYGFTPTASDIQII-WLPERP 61

Qy 74 -DKPVTVVQSIGTEVIGTLRPDYDRIRLF-ENGSLLLSDLOLADEGTVEISIT-DDT 130
Db 62 HTMPKYLGSVNKSVVPDL--EYQHKFTMPPNASLLINLPQFPDEGNYIVKVNIOGNGT 119

Qy 131 FTGEKTNLTVDVPISRPQVLV-ASTTVLESEAFNLNCSHENGTKPSYTWLKDGPPLN 189
Db 120 LSASQKIQTVDVDFVTKPVQIHPSPGAVEYVGNMTLTCHVEGGTRLAYQWLKNGRPVHT 179

Qy 190 DSRMLSPDQKVLITITRVLMEDDDLXSCMVENPISQGRSLPVKITVY 236
Db 180 SSTYSFSPQNTLHIAPTVKEDIGNYSLVRNPVSEMSDIIMPIY 226

RESULT 6
US-09-904-920A-320
; Sequence 320, Application US/09904920A


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; Patent No. 6806352
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, David
; APPLICANT: Botstein, Avi
; APPLICANT: Deanoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,920A
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
; UN-09-904-920A-320

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Query Match          13.3%  Score 282;  DB 4;  Length 450;
Best Local Similarity 31.7%;  Pred. No. 1.2e-14;
Matches 72;  Conservative 43;  Mismatches 102;  Indels 10;  Gaps 7

Qy 17 LAPVYVLLLTCTDPLEGVNITSPVRLIHGTVGKSAALLSVQYS--STSSDRPVVKWQKLR- 73
Db 3 LKVTFTLSFATGACSLKVTVPSSHVGVKQALYLPVHYGFTTPASDIQII-WLFRFP 61
Qy 74 -DKPVTVVQSIGTEVIGTLRPDVRDRIRLF-ENGSLLLSLDLQLADEGTYVEISIT-DDT 130
Db 62 HTWPKYLLGSVNSKVPVDL--EYQHKFTMPNPASLLINLPQFPDEGNYIVKVNIOGNGT 119
Qy 131 FTEKTNLTVDVPISRPQVLV-ASTTVLESEAFITLNCSEHNGTKSPSYTWMKQKPLLN 189
Db 120 LSAQKIQVTVDDEVTKPVVQIHPSPGAVEYVGNMNTLTCHVEGGTRLAYQWLKNGRPVHT 179
Qy 190 DSRMLSPDQKVTITITVLMEDDDLYSCMVENPISQGRSLPVKITVY 236
Db 180 SSTYSFSPQNTLHIAPVTXEDIGNYSCLVRNPVSEMSDIIPIIY 226

RESULT 7
US-09-909-064-320
; Sequence 320, Application US/09909064
; Patent No. 6818449
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,064
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089

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; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-909-064-320

Query Match 13.3%; Score 282; DB 4; Length 450;
Best Local Similarity 31.7%; Pred. No. 1.2e-14;
Matches 72; Conservative 43; Mismatches 102; Indels 10; Gaps 7;

Qy 17 LAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKALLSVQYS--STSSDRPVVKWQLKR- 73
Db 3 LKVFTEFLSPATGACGLKVTVPSTHVGVRGQALYLPVHYGHTPASDIQII-WLPERP 61

Qy 74 -DKPVTVVQSIGTEVIGTLRPDYRDRIRLP-ENGSLLSLDLQADGTYEVEISIT-DDT 130
Db 62 HTMPKYLGSVKNKSVWPDL--EYQHKFTMPNPNASLLINPLQFPDEGNYIVKVNIOGNGT 119

Qy 131 FTGKKTINLTVDVPISRPQVLV-ASTTVLELSEAFNLCSHENGTKPSYTWLKDQKPLN 189
Db 120 LSASQKIQVTVDVDPVTKPVVQIHPPSGAVEVGNWTLTCHVEGTRLAYQWLKNGRPVHT 179

Qy 190 DSRMLLSPDQKVLITITRVLMEDDDLYSCMVENPISQGRSLPVKITVY 236
Db 180 SSTYSFSPQNTLTHIAPVTKEDIGNYSCLVRNPVSEMSDIIMPIIY 226

RESULT 8
US-09-905-381A-320
; Sequence 320, Application US/09905381A
; Patent No. 6818746
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Geritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,381A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-905-381A-320

Query Match 13.3%; Score 282; DB 4; Length 450;
Best Local Similarity 31.7%; Pred. No. 1.2e-14;
Matches 72; Conservative 43; Mismatches 102; Indels 10; Gaps 7;

Qy 17 LAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKALLSVQYS--STSSDRPVVKWQLKR- 73
Db 3 LKVFTEFLSPATGACGLKVTVPSTHVGVRGQALYLPVHYGHTPASDIQII-WLPERP 61

Qy 74 -DKPVTVVQSIGTEVIGTLRPDYRDRIRLP-ENGSLLSLDLQADGTYEVEISIT-DDT 130
Db 62 HTMPKYLGSVKNKSVWPDL--EYQHKFTMPNPNASLLINPLQFPDEGNYIVKVNIOGNGT 119

Qy 131 FTGKKTINLTVDVPISRPQVLV-ASTTVLELSEAFNLCSHENGTKPSYTWLKDQKPLN 189
Db 120 LSASQKIQVTVDVDPVTKPVVQIHPPSGAVEVGNWTLTCHVEGTRLAYQWLKNGRPVHT 179

Qy 190 DSRMLLSPDQKVLITITRVLMEDDDLYSCMVENPISQGRSLPVKITVY 236
Db 180 SSTYSFSPQNTLTHIAPVTKEDIGNYSCLVRNPVSEMSDIIMPIIY 226

RESULT 9
US-09-906-618-320
; Sequence 320, Application US/09906618
; Patent No. 6828146


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; Sequence 13, Application US/09397243D
; Patent No. 6699688
; GENERAL INFORMATION:
; APPLICANT: Kornecki, Elizabeth
; APPLICANT: Sobocka, Malgorzata B.
; TITLE OF INVENTION: Human Platelet F11 Receptor
; FILE REFERENCE: 011.00221
; CURRENT APPLICATION NUMBER: US/09/397,243D
; CURRENT FILING DATE: 1999-09-16
; PRIOR APPLICATION NUMBER: 60/100,638
; PRIOR FILING DATE: 1998-09-16
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 13
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-397-243D-13

Query Match          9.5%; Score 202; DB 4; Length 316;
Best Local Similarity 22.7%; Pred. No. 2.2e-08;
Matches 77; Conservative 66; Mismatches 148; Indels 48; Gaps 17;

Qy 16 RLAPPVILLIQTDPLEGWNTSPVRLIHGTGKSALLSVQY-SSTSSDRPVVWQKLRD 74
Db 4 KWPVLTLCARVTVDAISVETPDVLRASQGSVTLPTCTYHTSTSSREGLIQDKTHT 63
Qy 75 KPVTVQSIGTEVI-GTLPYDRIRLFPEN-----GSLLSLDLQADGTYVEISITD 128
Db 64 ERVWIPFSNKYIHGEL---YKRVISISNNAEQSDASITDQLTMDNGTYECSVLSMS 120
Qy 129 DTFTGKTI-INTVDVPIRSQVLAIVSTVLESEAFNLN- SHENGKPSYTWLKDGP 186
Db 121 DLEGTGSRVLLVLPSPKCEGIEGTI--IGNIQLTQSGEGSTPOYSKRYN-- 176
Qy 187 LLNDSRMLLSP-DQKVLITRVLMBDDDLVSCWVENPISQGRSLPVKITVYVRS--S 240
Db 177 ILNQEQPLAQSPAGQPVSLKNIISTDTSGYICTSSN--EGTQF-CNITVAVRSPSMVA 233
Qy 241 LYIILSTGGI--FLVLTIVTVCACWKPSKQKLEKQNSLEYMDQNDRLKPEADTLPR 298
Db 234 LYVGIAVGVAALIIIGIIICCCCR-----GKDDNTE--DKEDAR--PNREAYEE 280
Qy 299 SGEQERKNPMALYILKDKDSPETENPAPEPRSPATEPGP 337
Db 281 PPEQIRE-----LSREREEDDYRQEEQRSTGRESP 311

RESULT 14
US-08-986-485-2
; Sequence 2, Application US/08986485
; Patent No. 6046030
; GENERAL INFORMATION:
; APPLICANT: WU, SHUJIAN
; APPLICANT: SWEET, RAYMOND
; APPLICANT: TRUNEH, ALEMSGED
; TITLE OF INVENTION: A HUMAN LIG-1 HOMOLOG (HLIG-1)
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: RATNER & PRESTIA
; STREET: P.O. BOX 980
; CITY: VALLEY FORGE
; STATE: PA
; COUNTRY: USA
; ZIP: 19482
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/986,485
; FILING DATE: 08-DEC-1997

; Sequence 13, Application US/09397243D
; Patent No. 6699688
; GENERAL INFORMATION:
; APPLICANT: Kornecki, Elizabeth
; APPLICANT: Sobocka, Malgorzata B.
; TITLE OF INVENTION: Human Platelet F11 Receptor
; FILE REFERENCE: 011.00221
; CURRENT APPLICATION NUMBER: US/09/397,243D
; CURRENT FILING DATE: 1999-09-16
; PRIOR APPLICATION NUMBER: 60/100,638
; PRIOR FILING DATE: 1998-09-16
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 13
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-397-243D-13

Query Match          9.4%; Score 199.5; DB 3; Length 1101;
Best Local Similarity 21.3%; Pred. No. 2.1e-07;
Matches 84; Conservative 58; Mismatches 160; Indels 93; Gaps 13;

Qy 46 TVGKSALLSVQYSTSSDRPVVWQKLRDQKPTVVVQSIGTEVIGTLRDPYDRIRLFP--- 102
Db 617 TIRTTTVARLECAATHGNPQIAWQ---KDG-----GTDPPAKER-RMHVMP 660
Qy 103 ENGSLLSLDLQADGTYVEISITDDTFTGKTIINTVDVPIRSQVLAIVSTVLESE 162
Db 661 DDDVFFITDKIDDAGVY---SCTAQSAGSISANATLTVLETPSLVVPLEDRVSVGE 716
Qy 163 APTLNCSEHGNTKPSYTWLKDGPFLNDSRMLSLSPDOKVLTITRVLMBDDDLVSCWVENP 222
Db 717 TVALQCKATGNPPRIITWFKGDRPLSLTERHLLTPDNQLLVQVNVAAEDAGRYTCMSNT 776
Qy 223 ISQGRSLPVKITVYVRSLSVLIILSTG-----GIF-----LLVTLVTVCAWKPS 266
Db 777 LGTERA-----HSQSLVLPAGCRKDGTTVGIFTIAVSSIVLTSVWVCIILYQTR 827
Qy 267 KRQKQKLEKQNSLEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKDKDSPETE---E 323
Db 828 KKSE-----EYSVTNTDETVPDPVPSYLSQGTLSDRQETVVRTEGGPQANGHIE 878
Qy 324 NPAPRSPATE-PPPGYSYSPVAPGRSPGI-----PIRSARR----- 360
Db 879 SNGVCPRDASHFPEDTHSVACRQPKLCAGSAYHKPEWKAMEKAEAGTTPGPHKMEHGRVV 938
Qy 361 -----YPRSPARSPATGRTHSSPPRAPSSP 385
Db 939 CSDCNTVEVCYSRQAFHPQFVSRDSQAQSPANGP 973

RESULT 15
US-08-928-383B-26
; Sequence 26, Application US/08928383B
; Patent No. 6210921
; GENERAL INFORMATION:
; APPLICANT: Robert W. Finberg, Jeffrey M. Bergelson,
; APPLICANT: and Marshall S. Horwitz
; TITLE OF INVENTION: CAR, A No. 6210921el Coxsackievirus and Adenovirus
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,383B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,100
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: DFN-020
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)742-4214
; INFORMATION FOR SEQ ID NO: 26:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-928-383B-26

Query Match          9.3%; Score 197.5; DB 3; Length 365;
Best Local Similarity 23.5%; Pred. No. 6.2e-08;
Matches 91; Conservative 66; Mismatches 146; Indels 85; Gaps 17;

Qy 16 RLAPFVLLLTQTPLEGVNITSPVRLIHGTGVKSAISVQYSSTSSDR-PV-VKWLKR 73
Db 3 RLLCFVLLCGI-ADFTSGLSITTPQRIEKAKGETAVLPCKFTLSPEDQGPLDIWLISP 61
Qy 74 DKPTVVVQSI-----GTEVIGTLRPDYDRIRKLFEN-----GSLLLSDQLADEGTYVE 123
Db 62 SDNQIVDQVILYSGDKIYDNYPDLKGRVHFTSNDVKSGDASINVTNLQLSDIGTYQCK 121
Qy 124 ISITDDFTFGKTLNLTVDVPISRPQVLVASTTTLVLELSEAFILNCSENGTKP-SYTWLK 182
Db 122 VKKAPG--VANKPELLTVLVKPSGTRCFVDGSE--EIGNDFKLKCEPKESGLPQFEWQK 177
Qy 183 DGKPELLNDSRMLLSP-----DQKVLITITRVLMEDDLISCMVENPISQGRSLPVKITVYR 237
Db 178 -----LSDSQTMPTPWLAEMTSPVISVKNASSEYSGTYSCTVQNRVGSQDCM-LRLDVP 231
Qy 238 RSLYIILSTGGIFLLVTLVTCA-----CWKPSKQKQKLEKQNSLEYMDQNDRLKPEA 293
Db 232 PSNRAGTIAGAVIGTLALVLIGAILFCCHR--KRREEKYEK-----VHHDIR----- 278
Qy 294 DTLPKSGQERKNPMALYILKDKDSPETEENPAPEPSATPEP---GPPGYSVSPAVPGRS 350
Db 279 -----EDVPPPKSRTSTARSYIGSNHSLGMSPSNM 310
Qy 351 PG-----LPFKSARYPRSPARSPA 370
Db 311 EGYSKTQYNQVPSEDFERAPQSPTLAPA 338
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Search completed: July 26, 2005, 16:15:52
Job time : 31.7159 secs

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OM protein - protein search, using sw model

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(without alignments)
1519.387 Million cell updates/sec

Title: US-10-706-691-16.
Perfect score: 2122
Sequence: 1 MKRERGALSRSALRLAPF.....TAGVHIIRQEAGVFEISA 416

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1741741 seqs, 388992284 residues

Total number of hits satisfying chosen parameters: 1741741

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

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- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
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- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US10E_PUBCOMB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 19: /cgn2_6/ptodata/2/pubpaa/US11A_PUBCOMB.pep.*
- 20: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
- 21: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2122	100.0	416	16	US-10-706-691-16
2	2122	100.0	416	16	US-10-706-691-41
3	1992	93.9	418	16	US-10-706-691-18
4	1962	92.5	383	16	US-10-706-691-26
5	1472	69.4	298	15	US-10-432-103-4
6	1205	56.8	240	16	US-10-706-691-20
7	1205	56.8	246	16	US-10-706-691-43
8	1189	56.0	256	15	US-10-112-944-434
9	1178	55.5	256	15	US-10-112-944-880
10	1157	54.5	224	15	US-10-415-188-7
11	1045	49.2	207	16	US-10-706-691-22

12	570	26.9	114	16	US-10-706-691-4	Sequence 4, Appli
13	548	25.8	110	16	US-10-706-691-24	Sequence 24, Appl
14	522	24.6	100	16	US-10-706-691-14	Sequence 14, Appl
15	484	22.8	94	16	US-10-706-691-6	Sequence 6, Appli
16	282	13.3	450	9	US-09-909-320-320	Sequence 320, App
17	282	13.3	450	9	US-09-909-088B-320	Sequence 320, App
18	282	13.3	450	9	US-09-905-291A-320	Sequence 320, App
19	282	13.3	450	9	US-09-902-853-320	Sequence 320, App
20	282	13.3	450	9	US-09-907-824-320	Sequence 320, App
21	282	13.3	450	9	US-09-907-841-320	Sequence 320, App
22	282	13.3	450	10	US-09-904-011-320	Sequence 320, App
23	282	13.3	450	10	US-09-903-640-320	Sequence 320, App
24	282	13.3	450	10	US-09-908-093-320	Sequence 320, App
25	282	13.3	450	10	US-09-906-742-320	Sequence 320, App
26	282	13.3	450	10	US-09-906-838-320	Sequence 320, App
27	282	13.3	450	10	US-09-907-613-320	Sequence 320, App
28	282	13.3	450	10	US-09-907-942-320	Sequence 320, App
29	282	13.3	450	10	US-09-904-859-320	Sequence 320, App
30	282	13.3	450	10	US-09-909-204-320	Sequence 320, App
31	282	13.3	450	10	US-09-904-820-320	Sequence 320, App
32	282	13.3	450	10	US-09-904-786-320	Sequence 320, App
33	282	13.3	450	10	US-09-906-646-320	Sequence 320, App
34	282	13.3	450	10	US-09-906-700-320	Sequence 320, App
35	282	13.3	450	10	US-09-903-786-320	Sequence 320, App
36	282	13.3	450	10	US-09-903-749A-320	Sequence 320, App
37	282	13.3	450	10	US-09-904-119-320	Sequence 320, App
38	282	13.3	450	10	US-09-904-956-320	Sequence 320, App
39	282	13.3	450	10	US-09-902-736-320	Sequence 320, App
40	282	13.3	450	10	US-09-907-794-320	Sequence 320, App
41	282	13.3	450	10	US-09-903-943-320	Sequence 320, App
42	282	13.3	450	10	US-09-904-462-320	Sequence 320, App
43	282	13.3	450	10	US-09-907-925-320	Sequence 320, App
44	282	13.3	450	10	US-09-902-692-320	Sequence 320, App
45	282	13.3	450	10	US-09-902-692-320	Sequence 320, App

ALIGNMENTS

RESULT 1
US-10-706-691-16
; Sequence 16, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fegan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boeschert, Ureula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 16
; LENGTH: 416
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-16

Query Match 100.0%; Score 2122; DB 16; Length 416;
Best Local Similarity 100.0%; Pred. No. 3.3e-138;
Matches 416; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MKRERGALSRSALRLAPFVLLLIQTDPLEGVNTSPVRLIHGTGKALLSVQYSST 60
Db 1 MKRERGALSRSALRLAPFVLLLIQTDPLEGVNTSPVRLIHGTGKALLSVQYSST 60

```
Qy 61 SSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRPDYRDRIRLFENGSLLLSDQLADEGTY 120
Db 61 SSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRPDYRDRIRLFENGSLLLSDQLADEGTY 120
Qy 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180
Db 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180
Qy 181 LKDGKPLNDSRMLLSPDQKVLTIITRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240
Db 181 LKDGKPLNDSRMLLSPDQKVLTIITRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240
Qy 241 LYIILSTGGIFLLVTLVTVCAWKPSKRQKKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
Db 241 LYIILSTGGIFLLVTLVTVCAWKPSKRQKKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
Qy 301 EQERKNPMALYILKDKSPETEENPAPEPRSAEPGPGYGSVPVPGRSPGLPIRSARR 360
Db 301 EQERKNPMALYILKDKSPETEENPAPEPRSAEPGPGYGSVPVPGRSPGLPIRSARR 360
Qy 361 YPRSPARSPATGRTHSSPPRAPSPGRSRSASRTLRTAGVHIIREQDEAGPVEISA 416
Db 361 YPRSPARSPATGRTHSSPPRAPSPGRSRSASRTLRTAGVHIIREQDEAGPVEISA 416

RESULT 2
US-10-706-691-41
; Sequence 41, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 41
; LENGTH: 416
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-41

Query Match 100.0%; Score 2122; DB 16; Length 416;
Best Local Similarity 100.0%; Pred. No. 3.3e-138;
Matches 416; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MKRERGALSASRALRLAPFVYLLLIQTDPLEGVNTITSPVRLIHGTGKSALLSVQYSST 60
Db 1 MKRERGALSASRALRLAPFVYLLLIQTDPLEGVNTITSPVRLIHGTGKSALLSVQYSST 60
Qy 61 SSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRPDYRDRIRLFENGSLLLSDQLADEGTY 120
Db 61 SSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRPDYRDRIRLFENGSLLLSDQLADEGTY 120
Qy 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180
Db 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180
Qy 181 LKDGKPLNDSRMLLSPDQKVLTIITRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240
Db 181 LKDGKPLNDSRMLLSPDQKVLTIITRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240
Qy 241 LYIILSTGGIFLLVTLVTVCAWKPSKRQKKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
Db 241 LYIILSTGGIFLLVTLVTVCAWKPSKRQKKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
Qy 301 EQERKNPMALYILKDKSPETEENPAPEPRSAEPGPGYGSVPVPGRSPGLPIRSARR 360
Db 301 EQERKNPMALYILKDKSPETEENPAPEPRSAEPGPGYGSVPVPGRSPGLPIRSARR 360
Qy 361 YPRSPARSPATGRTHSSPPRAPSPGRSRSASRTLRTAGVHIIREQDEAGPVEISA 416
Db 361 YPRSPARSPATGRTHSSPPRAPSPGRSRSASRTLRTAGVHIIREQDEAGPVEISA 416

RESULT 3
US-10-706-691-18
; Sequence 18, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 18
; LENGTH: 418
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-18

Query Match 93.9%; Score 1992; DB 16; Length 418;
Best Local Similarity 94.3%; Pred. No. 3.2e-129;
Matches 394; Conservative 10; Mismatches 12; Indels 2; Gaps 1;
Qy 1 MKRERGALSASRALRLAPFVYLLLIQTDPLEGVNTITSPVRLIHGTGKSALLSVQYSST 60
Db 1 MKRERGALSASRALRLAPFVYLLLIQTDPLEGVNTITSPVRLIHGTGKSALLSVQYSST 60
Qy 61 SSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRPDYRDRIRLFENGSLLLSDQLADEGTY 120
Db 61 SSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRPDYRDRIRLFENGSLLLSDQLADEGTY 120
Qy 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180
Db 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180
Qy 181 LKDGKPLNDSRMLLSPDQKVLTIITRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240
Db 181 LKDGKPLNDSRMLLSPDQKVLTIITRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240
Qy 241 LYIILSTGGIFLLVTLVTVCAWKPSKRQKKLEKQNSLEYMDQNDRLKPEADTLPRSG 298
Db 241 LYIILSTGGIFLLVTLVTVCAWKPSKRQKKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
Qy 299 SGOERKNPMALYILKDKSPETEENPAPEPRSAEPGPGYGSVPVPGRSPGLPIRSA 358
Db 301 SGOERKNPMALYILKDKSPETEENPAPEPRSAEPGPGYGSVPVPGRSPGLPIRSA 360
Qy 359 RYPRSPARSPATGRTHSSPPRAPSPGRSRSASRTLRTAGVHIIREQDEAGPVEISA 416
Db 361 RYPRSPARSPATGRTHSSPPRAPSPGRSRSASRTLRTAGVHIIREQDEAGPVEISA 418
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Qy 241 LYIILSTGGIFLLVTLVTVCAWKPSKRQKKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
Db 241 LYIILSTGGIFLLVTLVTVCAWKPSKRQKKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
Qy 301 EQERKNPMALYILKDKSPETEENPAPEPRSAEPGPGYGSVPVPGRSPGLPIRSARR 360
Db 301 EQERKNPMALYILKDKSPETEENPAPEPRSAEPGPGYGSVPVPGRSPGLPIRSARR 360
Qy 361 YPRSPARSPATGRTHSSPPRAPSPGRSRSASRTLRTAGVHIIREQDEAGPVEISA 416
Db 361 YPRSPARSPATGRTHSSPPRAPSPGRSRSASRTLRTAGVHIIREQDEAGPVEISA 416

RESULT 3
US-10-706-691-18
; Sequence 18, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 18
; LENGTH: 418
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-18

Query Match 93.9%; Score 1992; DB 16; Length 418;
Best Local Similarity 94.3%; Pred. No. 3.2e-129;
Matches 394; Conservative 10; Mismatches 12; Indels 2; Gaps 1;
Qy 1 MKRERGALSASRALRLAPFVYLLLIQTDPLEGVNTITSPVRLIHGTGKSALLSVQYSST 60
Db 1 MKRERGALSASRALRLAPFVYLLLIQTDPLEGVNTITSPVRLIHGTGKSALLSVQYSST 60
Qy 61 SSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRPDYRDRIRLFENGSLLLSDQLADEGTY 120
Db 61 SSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRPDYRDRIRLFENGSLLLSDQLADEGTY 120
Qy 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180
Db 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180
Qy 181 LKDGKPLNDSRMLLSPDQKVLTIITRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240
Db 181 LKDGKPLNDSRMLLSPDQKVLTIITRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240
Qy 241 LYIILSTGGIFLLVTLVTVCAWKPSKRQKKLEKQNSLEYMDQNDRLKPEADTLPRSG 298
Db 241 LYIILSTGGIFLLVTLVTVCAWKPSKRQKKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
Qy 299 SGOERKNPMALYILKDKSPETEENPAPEPRSAEPGPGYGSVPVPGRSPGLPIRSA 358
Db 301 SGOERKNPMALYILKDKSPETEENPAPEPRSAEPGPGYGSVPVPGRSPGLPIRSA 360
Qy 359 RYPRSPARSPATGRTHSSPPRAPSPGRSRSASRTLRTAGVHIIREQDEAGPVEISA 416
Db 361 RYPRSPARSPATGRTHSSPPRAPSPGRSRSASRTLRTAGVHIIREQDEAGPVEISA 418
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```
RESULT 4
US-10-706-691-26
; Sequence 26, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 26
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-26

Query Match 92.5%; Score 1962; DB 16; Length 383;
Best Local Similarity 100.0%; Pred. No. 3.3e-127;
Matches 383; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 34 VNITSPVRLIHGTGKSAALLSVQYSSSTSSDRPVVKWQKRDKPTVTVQSIGTEVIGTLRP 93
Db 1 VNITSPVRLIHGTGKSAALLSVQYSSSTSSDRPVVKWQKRDKPTVTVQSIGTEVIGTLRP 60
Qy 94 DYDRIRLFENGSLLSLDLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 153
Db 61 DYDRIRLFENGSLLSLDLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
Qy 154 STTVLELSEATLNCSENGTKPSYTWLKDGPILNDSRMLLSPDQKVLITITRVLMEDD 213
Db 121 STTVLELSEATLNCSENGTKPSYTWLKDGPILNDSRMLLSPDQKVLITITRVLMEDD 180
Qy 214 LYSQWENPISQGRSLPVKTIIVYRRSSLYIILSTGGIFLLVTVVCACWKPSKRKOKKL 273
Db 181 LYSQWENPISQGRSLPVKTIIVYRRSSLYIILSTGGIFLLVTVVCACWKPSKRKOKKL 240
Qy 274 EKQNSLEYMQNDRLKPEADTLPRSGEQERKNPMALYILKDKDSPETEENPAPEPRSAT 333
Db 241 EKQNSLEYMQNDRLKPEADTLPRSGEQERKNPMALYILKDKDSPETEENPAPEPRSAT 300
Qy 334 EPGPFGYSVSPAVPGSRPLGPIRAGRYPRSPARSPATGRTHSSPPRAPSPGSRGSASR 393
Db 301 EPGPFGYSVSPAVPGSRPLGPIRAGRYPRSPARSPATGRTHSSPPRAPSPGSRGSASR 360
Qy 394 TLRTAGVHIIEQDEAGPVEISA 416
Db 361 TLRTAGVHIIEQDEAGPVEISA 383

RESULT 5
US-10-432-103-4
; Sequence 4, Application US/10432103
; Publication No. US20040404342A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dying Aina M.
; APPLICANT: YUE, Henry
; APPLICANT: ELLIOTT, Vicki S.
; APPLICANT: THANGAVELU, Kavitha
; APPLICANT: RAMKUMAR, Jayalaxmi
; APPLICANT: LU, Yan
```

```
; APPLICANT: LO, Terrence P.
; APPLICANT: GURURAJAN, Rajagopal
; APPLICANT: GANDHI, Ameena R.
; APPLICANT: ARVIZU, Chandra
; APPLICANT: YAO, Monique G.
; TITLE OF INVENTION: IMMUNOGLOBULIN SUPERFAMILY PROTEINS
; FILE REFERENCE: PF-0841 PCT
; CURRENT APPLICATION NUMBER: US/10/432,103
; CURRENT FILING DATE: 2003-05-16
; PRIOR APPLICATION NUMBER: 60/249,645
; PRIOR FILING DATE: 2000-11-16
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 4
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20040404342A1 5831801CD1
US-10-432-103-4

Query Match 69.4%; Score 1472; DB 15; Length 298;
Best Local Similarity 100.0%; Pred. No. 1.7e-93;
Matches 291; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKRERGALSRSARALRIAPFVYLLLIQTDPLEGVNIITSPVRLIHGTGKSAALLSVQYSS 60
Db 1 MKRERGALSRSARALRIAPFVYLLLIQTDPLEGVNIITSPVRLIHGTGKSAALLSVQYSS 60
Qy 61 SSDRPVVKWQKRDKPTVTVQSIGTEVIGTLRPDYDRIRLFENGSLLSLDLADEGT 120
Db 61 SSDRPVVKWQKRDKPTVTVQSIGTEVIGTLRPDYDRIRLFENGSLLSLDLADEGT 120
Qy 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLELSEATLNCSENGTKPSYTW 180
Db 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLELSEATLNCSENGTKPSYTW 180
Qy 181 LKDGKPLNDSRMLLSPDQKVLITITRVLMEDDDLYSQWENPISQGRSLPVKTIIVYRRSS 240
Db 181 LKDGKPLNDSRMLLSPDQKVLITITRVLMEDDDLYSQWENPISQGRSLPVKTIIVYRRSS 240
Qy 241 LYIILSTGGIFLLVTVVCACWKPSKRKOKKLEKQNSLEYMQNDRLK 291
Db 241 LYIILSTGGIFLLVTVVCACWKPSKRKOKKLEKQNSLEYMQNDRLK 291

RESULT 6
US-10-706-691-20
; Sequence 20, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 20
; LENGTH: 240
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-20
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Query Match 56.8%; Score 1205; DB 16; Length 240;
Best Local Similarity 100.0%; Pred. No. 3.4e-75;
Matches 240; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKRERGALSRRALRLAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSGALLSVQYSST 60
Db 1 MKRERGALSRRALRLAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSGALLSVQYSST 60

Qy 61 SSRPVPVKWQKRDKPVTVQSIGTEVIGTLRPDYRDRIRLFPENGSLLLSDQLADSGTY 120
Db 61 SSRPVPVKWQKRDKPVTVQSIGTEVIGTLRPDYRDRIRLFPENGSLLLSDQLADSGTY 120

Qy 121 EVELSIITDDTFTGKTIINLTVDVPISRPQVLVASTTVLESEAFTLNCSEHNGTKPSYTW 180
Db 121 EVELSIITDDTFTGKTIINLTVDVPISRPQVLVASTTVLESEAFTLNCSEHNGTKPSYTW 180

Qy 181 LKDGKPLNDSRMLLSPDQKVLITRVLMEDEDDLYSCWVENPISQGRSLPKVITVYRRSS 240
Db 181 LKDGKPLNDSRMLLSPDQKVLITRVLMEDEDDLYSCWVENPISQGRSLPKVITVYRRSS 240

RESULT 7

US-10-706-691-43
; Sequence 43, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10706.691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 43
; LENGTH: 246
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-43

Query Match 56.8%; Score 1205; DB 16; Length 246;
Best Local Similarity 100.0%; Pred. No. 3.5e-75;
Matches 240; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKRERGALSRRALRLAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSGALLSVQYSST 60
Db 1 MKRERGALSRRALRLAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSGALLSVQYSST 60

Qy 61 SSRPVPVKWQKRDKPVTVQSIGTEVIGTLRPDYRDRIRLFPENGSLLLSDQLADSGTY 120
Db 61 SSRPVPVKWQKRDKPVTVQSIGTEVIGTLRPDYRDRIRLFPENGSLLLSDQLADSGTY 120

Qy 121 EVELSIITDDTFTGKTIINLTVDVPISRPQVLVASTTVLESEAFTLNCSEHNGTKPSYTW 180
Db 121 EVELSIITDDTFTGKTIINLTVDVPISRPQVLVASTTVLESEAFTLNCSEHNGTKPSYTW 180

Qy 181 LKDGKPLNDSRMLLSPDQKVLITRVLMEDEDDLYSCWVENPISQGRSLPKVITVYRRSS 240
Db 181 LKDGKPLNDSRMLLSPDQKVLITRVLMEDEDDLYSCWVENPISQGRSLPKVITVYRRSS 240

RESULT 8

US-10-112-944-434
; Sequence 434, Application US/10112944

Publication No. US20040048249A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Gezhi
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Xue, Aidong J.
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Wehrman, Tom
; APPLICANT: Ghosh, Malabika
; APPLICANT: Wang, Dunrui
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wang, Zhiwei
; TITLE OF INVENTION: No. US20040048249A1el Nucleic Acids and
; FILE REFERENCE: 805A
; CURRENT APPLICATION NUMBER: US/10/112.944
; CURRENT FILING DATE: 2002-03-28
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: US 09/496,914
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: US 09/515,126
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: US 09/519,705
; PRIOR FILING DATE: 2000-03-07
; PRIOR APPLICATION NUMBER: US 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 09/552,929
; PRIOR FILING DATE: 2000-04-18
; PRIOR APPLICATION NUMBER: US 09/577,408
; PRIOR FILING DATE: 2000-05-18
; NUMBER OF SEQ ID NOS: 924
; SOFTWARE: pt_FL_genes Version 5.0
; SEQ ID NO 434
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-112-944-434

Query Match 56.0%; Score 1189; DB 15; Length 256;
Best Local Similarity 96.7%; Pred. No. 4.7e-74;
Matches 236; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MKRERGALSRRALRLAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSGALLSVQYSST 60
Db 1 MKRERGALSRRALRLAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSGALLSVQYSST 60

Qy 61 SSRPVPVKWQKRDKPVTVQSIGTEVIGTLRPDYRDRIRLFPENGSLLLSDQLADSGTY 120
Db 61 SSRPVPVKWQKRDKPVTVQSIGTEVIGTLRPDYRDRIRLFPENGSLLLSDQLADSGTY 120

Qy 121 EVELSIITDDTFTGKTIINLTVDVPISRPQVLVASTTVLESEAFTLNCSEHNGTKPSYTW 180
Db 121 EVELSIITDDTFTGKTIINLTVDVPISRPQVLVASTTVLESEAFTLNCSEHNGTKPSYTW 180

Qy 181 LKDGKPLNDSRMLLSPDQKVLITRVLMEDEDDLYSCWVENPISQGRSLPKVITVYRRSS 240
Db 181 LKDGKPLNDSRMLLSPDQKVLITRVLMEDEDDLYSCWVENPISQGRSLPKVITVYRRSS 240

Qy 241 LYII 244
Db 241 FYII 244

RESULT 9
US-10-112-944-880
; Sequence 880, Application US/10112944
; Publication No. US20040048249A1
; GENERAL INFORMATION:

; APPLICANT: Tang, Y. Tom
 ; APPLICANT: Yang, Yonghong
 ; APPLICANT: Wang, Gezhi
 ; APPLICANT: Zhang, Jie
 ; APPLICANT: Ren, Feiyan
 ; APPLICANT: Xue, Aidong J.
 ; APPLICANT: Wang, Jian-Rui
 ; APPLICANT: Wehrman, Tom
 ; APPLICANT: Ghosh, Malabika
 ; APPLICANT: Wang, Dunrui
 ; APPLICANT: Zhao, Qing A.
 ; APPLICANT: Wang, Zhiwei

; TITLE OF INVENTION: No. US20040048249A1el Nucleic Acids and
 ; TITLE OF INVENTION: Secreted Polypeptides

FILE REFERENCE: 805A

CURRENT APPLICATION NUMBER: US/10/112,944

PRIOR FILING DATE: 2002-03-28

PRIOR APPLICATION NUMBER: US 09/488,725

PRIOR FILING DATE: 2000-01-21

PRIOR APPLICATION NUMBER: US 09/491,404

PRIOR FILING DATE: 2000-01-25

PRIOR APPLICATION NUMBER: US 09/496,914

PRIOR FILING DATE: 2000-02-03

PRIOR APPLICATION NUMBER: US 09/515,126

PRIOR FILING DATE: 2000-02-28

PRIOR APPLICATION NUMBER: US 09/519,705

PRIOR FILING DATE: 2000-03-07

PRIOR APPLICATION NUMBER: US 09/540,217

PRIOR FILING DATE: 2000-03-31

PRIOR APPLICATION NUMBER: US 09/552,929

PRIOR FILING DATE: 2000-04-18

PRIOR APPLICATION NUMBER: US 09/577,408

PRIOR FILING DATE: 2000-05-18

NUMBER OF SEQ ID NOS: 924

SOFTWARE: pc_FL_genes Version 5.0

SEQ ID NO 880

LENGTH: 256

TYPE: PRT

ORGANISM: Homo sapiens

US-10-112-944-880

Query Match 55.5%; Score 1178; DB 15; Length 256;

Best Local Similarity 97.1%; Pred. No. 2.7e-73;

Matches 234; Conservative 4; Mismatches 73; Indels 0; Gaps 0;

Qy 1 MKRERGLSRASRALRLAPFVYLLLIQTDPLEGVNITSPVRLIHCTWCKSALLSVQVSST 60

Db 1 MKRERGLSRASRALRLAPFVYLLLIQTDPLEGVNITSPVRLIHCTWCKSALLSVQVSST 60

Qy 61 SSDRPVVKWQKRDKPVTWVQSIGTEVIGTLRPDYRDRIRLFENGSLLLSLQLADEGTY 120

Db 61 SSDRPVVKWQKRDKPVTWVQSIGTEVIGTLRPDYRDRIRLFENGSLLLSLQLADEGTY 120

Qy 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTVLELSEAFNLCSHENGKPSYTW 180

Db 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTVLELSEAFNLCSHENGKPSYTW 180

Qy 181 LKDGKPLNDRMLLSPDKVLTITRVLMEDDDLSCMVENPISQGRSLPVKITVYRRSS 240

Db 181 LKDGKPLNDRMLLSPDKVLTITRVLMEDDDLSCMVENPISQGRSLPVKITVYRRSS 240

Qy 241 L 241

Db 241 L 241

RESULT 10

US-10-415-188-7

Sequence 7, Application US/10415188

Publication No. US20040049010A1

GENERAL INFORMATION:

APPLICANT: WARREN, Bridget A.; XU, Yuming;

APPLICANT: YUE, Henry; BATRA, Sajeev;

; APPLICANT: BURFORD, Neil; GANDHI, Ameena R.;
 ; APPLICANT: CHAWLA, Narinder K.; ARVIZU, Chandra S.;
 ; APPLICANT: TANG, Y. Tom; LU, Dyung Aina M.;
 ; APPLICANT: DUGGAN, Brendan M.; BAUGHN, Mariah R.;
 ; APPLICANT: LEE, Ernestine A.; KHAN, Farran A.;
 ; APPLICANT: NGUYEN, Damiel B.; AZIMZAI, Yalda;
 ; APPLICANT: YAO, Monique G.; LAL, Preeti G.;
 ; APPLICANT: THANGAVELU, Kavitha; RAMKUMAR, Jayalaxmi;
 ; APPLICANT: TRAN, Bao; DING, Li;
 ; APPLICANT: AU-YOUNG, Janice

TITLE OF INVENTION: TRANSMEMBRANE PROTEINS

FILE REFERENCE: PF-0836 USN

CURRENT APPLICATION NUMBER: US/10/415,188

CURRENT FILING DATE: 2003-04-23

PRIOR APPLICATION NUMBER: PCT/US01/49670

PRIOR FILING DATE: 2001-10-26

PRIOR APPLICATION NUMBER: US 60/244,017

PRIOR FILING DATE: 2000-10-27

PRIOR APPLICATION NUMBER: US 60/252,855

PRIOR FILING DATE: 2000-11-22

PRIOR APPLICATION NUMBER: US 60/251,825

PRIOR FILING DATE: 2000-12-07

PRIOR APPLICATION NUMBER: US 60/255,085

PRIOR FILING DATE: 2000-12-12

NUMBER OF SEQ ID NOS: 34

SOFTWARE: PERL Program

SEQ ID NO 7

LENGTH: 224

TYPE: PRT

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: misc feature

OTHER INFORMATION: Incyte ID No. US20040049010A1 382654CD1

US-10-415-188-7

Query Match 54.5%; Score 1157; DB 15; Length 224;

Best Local Similarity 100.0%; Pred. No. 6.5e-72;

Matches 224; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 193 MLLSPDQKVLITRVLMEDDDLSCMVENPISQGRSLPVKITVYRRSSLYILSTGGIFL 252

Db 1 MLLSPDQKVLITRVLMEDDDLSCMVENPISQGRSLPVKITVYRRSSLYILSTGGIFL 60

Qy 253 LVTLVTVCAWKPSKRQKKLEKQNSLEYMDQNDRLKPEADTLPKGEQGRKNPMALYI 312

Db 61 LVTLVTVCAWKPSKRQKKLEKQNSLEYMDQNDRLKPEADTLPKGEQGRKNPMALYI 120

Qy 313 LKDKDSPETENPAPEPRSPATEPGPGYSPVAPVGRSPGLPIRSARRYPSPARSPATG 372

Db 121 LKDKDSPETENPAPEPRSPATEPGPGYSPVAPVGRSPGLPIRSARRYPSPARSPATG 180

Qy 373 RTHSSPPRAPSSPCRSRSASRTLTAGVHIIRQDEAGPVEISA 416

Db 181 RTHSSPPRAPSSPCRSRSASRTLTAGVHIIRQDEAGPVEISA 224

RESULT 11

US-10-706-691-22

Sequence 22, Application US/10706691

Publication No. US20040204352A1

GENERAL INFORMATION:

APPLICANT: Davids, Andrew Robert

APPLICANT: Fagan, Richard Joseph

APPLICANT: Phelps, Christopher Benjamin

APPLICANT: Power, Christine

APPLICANT: Chvatchko, Yolande

APPLICANT: Boschert, Ursula

TITLE OF INVENTION: Cytokine antagonist molecules

FILE REFERENCE: 674582-2001

CURRENT APPLICATION NUMBER: US/10/706,691

CURRENT FILING DATE: 2003-11-12

PRIOR APPLICATION NUMBER: PCT/GB03/01851

PRIOR FILING DATE: 2003-04-30

```
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 22
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-22

Query Match      49.2%; Score 1045; DB 16; Length 207;
Best Local Similarity 100.0%; Pred. No. 3.2e-64;
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 34 VNITSPVRLIHGTGKALLSVQYSTSSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 93
Db 1 VNITSPVRLIHGTGKALLSVQYSTSSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 60

Qy 94 DYDRIRLRFENGSLLSLDQLADEGTVEVEISITDDTFTGKTNLTVDPISRPQVLVA 153
Db 61 DYDRIRLRFENGSLLSLDQLADEGTVEVEISITDDTFTGKTNLTVDPISRPQVLVA 120

Qy 154 STTVLELSEAFPLNCSHENGKPKSYTWLKGKPLNDSRMLLSPDKVLITRVLMBDDDD 213
Db 121 STTVLELSEAFPLNCSHENGKPKSYTWLKGKPLNDSRMLLSPDKVLITRVLMBDDDD 180

Qy 214 LYSCHVENPISQGRSLPVKITYRRSS 240
Db 181 LYSCHVENPISQGRSLPVKITYRRSS 207

RESULT 12
US-10-706-691-4
; Sequence 4, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 4
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-4

Query Match      26.9%; Score 570; DB 16; Length 114;
Best Local Similarity 100.0%; Pred. No. 9.2e-32;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 30 PLEGVNITSPVRLIHGTGKALLSVQYSTSSDRPVVKWQKRDKPVTVVQSIGTEVIG 89
Db 1 PLEGVNITSPVRLIHGTGKALLSVQYSTSSDRPVVKWQKRDKPVTVVQSIGTEVIG 60

Qy 90 TLRDPYRIRLRFENGSLLSLDQLADEGTVEVEISITDDTFTGKTNLTVDV 143
Db 61 TLRDPYRIRLRFENGSLLSLDQLADEGTVEVEISITDDTFTGKTNLTVDV 114

RESULT 13
US-10-706-691-24
; Sequence 24, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 14
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-14

Query Match      24.6%; Score 522; DB 16; Length 100;
Best Local Similarity 100.0%; Pred. No. 1.6e-28;
Matches 100; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 317 DSPETENPAPEPRSATPEPGPGYVSVPVPGRSPGLPIRSARYPPSPAPSPATGRTHS 376
Db 1 DSPETENPAPEPRSATPEPGPGYVSVPVPGRSPGLPIRSARYPPSPAPSPATGRTHS 60
```

QY 377 SPPRAPSSGSRASRTLRTAGVHIIREQDEAGPVEISA 416
 |||||
 Db 61 SPPRAPSSGSRASRTLRTAGVHIIREQDEAGPVEISA 100
 |||||

RESULT 15

US-10-706-691-6
 ; Sequence 6, Application US/10706691
 ; Publication No. US20040204352A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Davids, Andrew Robert
 ; APPLICANT: Fagan, Richard Joseph
 ; APPLICANT: Phelps, Christopher Benjamin
 ; APPLICANT: Power, Christine
 ; APPLICANT: Chvatchko, Yolande
 ; APPLICANT: Boschert, Ursula
 ; TITLE OF INVENTION: Cytokine antagonist molecules
 ; FILE REFERENCE: 674582-2001
 ; CURRENT APPLICATION NUMBER: US/10/706,691
 ; CURRENT FILING DATE: 2003-11-12
 ; PRIOR APPLICATION NUMBER: PCT/GB03/01851
 ; PRIOR FILING DATE: 2003-04-30
 ; PRIOR APPLICATION NUMBER: GB 0209884.6
 ; PRIOR FILING DATE: 2002-04-30
 ; NUMBER OF SEQ ID NOS: 43
 ; SOFTWARE: SeqWin99, version 1.02
 ; SEQ ID NO 6
 ; LENGTH: 94
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-706-691-6

Query Match 22.8%; Score 484; DB 16; Length 94;
 Best Local Similarity 100.0%; Pred. No. 6.3e-26;
 Matches 94; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 144 PISRPQVLVASTTVLESEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKYL 203
 |||||
 Db 1 PISRPQVLVASTTVLESEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKYL 60
 |||||
 QY 204 ITRVLMEDDDLVSCMVNPISQGRSLPVKITVYR 237
 |||||
 Db 61 ITRVLMEDDDLVSCMVNPISQGRSLPVKITVYR 94
 |||||

Search completed: July 26, 2005, 16:21:17
 Job time : 108.504 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 26, 2005, 16:01:42 ; Search time 61.4446 Seconds
(without alignments)
1519.387 Million cell updates/sec

Title: US-10-706-691-20

Perfect score: 1205

Sequence: 1 MKRRGALSRASRLRLAPF.....NPISGRSLPVKITVYRRSS 240

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1741741 seqs, 388992284 residues

Total number of hits satisfying chosen parameters: 1741741

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US09C_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
17: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
18: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
19: /cgn2_6/ptodata/2/pubpaa/US11_PUBCOMB.pep.*
20: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
21: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1205	100.0	240	16	US-10-706-691-20
2	1205	100.0	246	16	US-10-706-691-43
3	1205	100.0	298	15	US-10-432-103-4
4	1205	100.0	416	16	US-10-706-691-16
5	1205	100.0	416	16	US-10-706-691-41
6	1174	97.4	256	15	US-10-112-944-434
7	1174	97.4	256	15	US-10-112-944-880
8	1171	97.2	418	16	US-10-706-691-18
9	1045	86.7	207	16	US-10-706-691-22
10	1045	86.7	383	16	US-10-706-691-26
11	570	47.3	114	16	US-10-706-691-4

	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
	548	484	484	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282
	45.5	40.2	40.2	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
	110	94	94	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
	16	16	16	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	US-10-706-691-24	US-10-706-691-6	US-09-909-320-320	US-09-909-088B-320	US-09-905-281A-320	US-09-902-853-320	US-09-907-824-320	US-09-907-841-320	US-09-904-011-320	US-09-903-640-320	US-09-908-093-320	US-09-906-742-320	US-09-906-838-320	US-09-909-820-320	US-09-904-820-320	US-09-904-786-320	US-09-904-119-320	US-09-906-646-320	US-09-904-956-320	US-09-902-736-320	US-09-907-794-320	US-09-903-943-320	US-09-904-462-320	US-09-907-925-320	US-09-902-692-320	US-09-903-520-320	US-09-903-056-320	US-09-902-736-320	US-09-907-794-320	US-09-903-943-320	US-09-904-462-320	US-09-907-925-320	US-09-902-692-320
	Sequence 24, App1	Sequence 6, App1	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	Sequence 320, App	

ALIGNMENTS

RESULT 1
US-10-706-691-20
Sequence 20, Application US/10706691
Publication No. US20040204352A1
GENERAL INFORMATION:
APPLICANT: Davids, Andrew Robert
APPLICANT: Fagan, Richard Joseph
APPLICANT: Phelps, Christopher Benjamin
APPLICANT: Power, Christine
APPLICANT: Chvatchko, Yolande
APPLICANT: Boschart, Ursula
TITLE OF INVENTION: Cytokine antagonist molecules
FILE REFERENCE: 674582-2001
CURRENT FILING DATE: 2003-11-12
PRIOR FILING DATE: 2003-04-30
PRIOR APPLICATION NUMBER: PCT/GB03/01851
PRIOR APPLICATION NUMBER: GB 0209884.6
NUMBER OF SEQ ID NOS: 43
SOFTWARE: Seqwin99, version 1.02
SEQ ID NO 20
LENGTH: 240
TYPE: PRT
ORGANISM: Homo sapiens
US-10-706-691-20
Query Match 100.0%; Score 1205; DB 16; Length 240;
Best Local Similarity 100.0%; Pred. No. 5.5e-102; Indels 0; Gaps 0;
Matches 240; Conservative 0; Mismatches 0;
DB 1 MKRRGALSRASRLRLAPFYLLIOTDPLEGVNITSPPVRLHGTGKSLSVQYSST 60
1 MKRRGALSRASRLRLAPFYLLIOTDPLEGVNITSPPVRLHGTGKSLSVQYSST 60

```

QY      61  SSDRPVVMKQLRKDPVTYVOSIGTEVIGTLRPDYRDIRLFEENGSLLSLDQLADEGTY 120
Db      61  SSDRPVVMKQLRKDPVTYVOSIGTEVIGTLRPDYRDIRLFEENGSLLSLDQLADEGTY 120
QY      121 EVEISITDDPTGTEKTNLTVDVPISRPOVLVASTTVLELSBAFTLNCSHENGTKPSYTW 180
Db      121 EVEISITDDPTGTEKTNLTVDVPISRPOVLVASTTVLELSBAFTLNCSHENGTKPSYTW 180
QY      121 EVEISITDDPTGTEKTNLTVDVPISRPOVLVASTTVLELSBAFTLNCSHENGTKPSYTW 180
Db      121 EVEISITDDPTGTEKTNLTVDVPISRPOVLVASTTVLELSBAFTLNCSHENGTKPSYTW 180
QY      181 LKDGKPLINDSRMLSPDQKVLITTRVLMEDDDLSCWENPISQGRSLPVKITVYRRSS 240
Db      181 LKDGKPLINDSRMLSPDQKVLITTRVLMEDDDLSCWENPISQGRSLPVKITVYRRSS 240

```

RESULT 2 US-10-706-691-43

```

; Sequence 43, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Seqwin99, version 1.02
; SEQ ID NO 43
; LENGTH: 246
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-43

```

```

Query Match      100.0%; Score 1205; DB 16; Length 246;
Best Local Similarity 100.0%; Pred. No. 5.7e-102;
Matches 240; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1  MKRERGALSRSARLRAPFYVLLLIQTDPLEGVNITSFVRLIHGTGKSALLSVQYSST 60
Db      1  MKRERGALSRSARLRAPFYVLLLIQTDPLEGVNITSFVRLIHGTGKSALLSVQYSST 60
QY      61  SSDRPVVMKQLRKDPVTYVOSIGTEVIGTLRPDYRDIRLFEENGSLLSLDQLADEGTY 120
Db      61  SSDRPVVMKQLRKDPVTYVOSIGTEVIGTLRPDYRDIRLFEENGSLLSLDQLADEGTY 120
QY      121 EVEISITDDPTGTEKTNLTVDVPISRPOVLVASTTVLELSBAFTLNCSHENGTKPSYTW 180
Db      121 EVEISITDDPTGTEKTNLTVDVPISRPOVLVASTTVLELSBAFTLNCSHENGTKPSYTW 180
QY      121 EVEISITDDPTGTEKTNLTVDVPISRPOVLVASTTVLELSBAFTLNCSHENGTKPSYTW 180
Db      121 EVEISITDDPTGTEKTNLTVDVPISRPOVLVASTTVLELSBAFTLNCSHENGTKPSYTW 180
QY      181 LKDGKPLINDSRMLSPDQKVLITTRVLMEDDDLSCWENPISQGRSLPVKITVYRRSS 240
Db      181 LKDGKPLINDSRMLSPDQKVLITTRVLMEDDDLSCWENPISQGRSLPVKITVYRRSS 240

```

RESULT 3 US-10-432-103-4

```

; Sequence 4, Application US/104322103
; Publication No. US20040043424A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dying Aina M.
; APPLICANT: YUE, Henry
; APPLICANT: ELIOTT, Vicki S.
; APPLICANT: THANGAVELU, Kavitha

```

```

; APPLICANT: RAMKUMAR, Jayalaxmi
; APPLICANT: LU, Yan
; APPLICANT: LO, Terrence P.
; APPLICANT: GURURAJAN, Rajagopal
; APPLICANT: GANDHI, Ameeta K.
; APPLICANT: ARVIZU, Chandra
; APPLICANT: YAO, Monique G.
; TITLE OF INVENTION: IMMUNOGLOBULIN SUPERFAMILY PROTEINS
; FILE REFERENCE: PF-0641 PCT
; CURRENT APPLICATION NUMBER: US/10/432,103
; CURRENT FILING DATE: 2003-05-16
; PRIOR APPLICATION NUMBER: 60/249,645
; PRIOR FILING DATE: 2000-11-16
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 4
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20040043424A1 5831801CD1
US-10-432-103-4

```

```

Query Match      100.0%; Score 1205; DB 15; Length 298;
Best Local Similarity 100.0%; Pred. No. 7.4e-102;
Matches 240; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1  MKRERGALSRSARLRAPFYVLLLIQTDPLEGVNITSFVRLIHGTGKSALLSVQYSST 60
Db      1  MKRERGALSRSARLRAPFYVLLLIQTDPLEGVNITSFVRLIHGTGKSALLSVQYSST 60
QY      61  SSDRPVVMKQLRKDPVTYVOSIGTEVIGTLRPDYRDIRLFEENGSLLSLDQLADEGTY 120
Db      61  SSDRPVVMKQLRKDPVTYVOSIGTEVIGTLRPDYRDIRLFEENGSLLSLDQLADEGTY 120
QY      121 EVEISITDDPTGTEKTNLTVDVPISRPOVLVASTTVLELSBAFTLNCSHENGTKPSYTW 180
Db      121 EVEISITDDPTGTEKTNLTVDVPISRPOVLVASTTVLELSBAFTLNCSHENGTKPSYTW 180
QY      121 EVEISITDDPTGTEKTNLTVDVPISRPOVLVASTTVLELSBAFTLNCSHENGTKPSYTW 180
Db      121 EVEISITDDPTGTEKTNLTVDVPISRPOVLVASTTVLELSBAFTLNCSHENGTKPSYTW 180
QY      181 LKDGKPLINDSRMLSPDQKVLITTRVLMEDDDLSCWENPISQGRSLPVKITVYRRSS 240
Db      181 LKDGKPLINDSRMLSPDQKVLITTRVLMEDDDLSCWENPISQGRSLPVKITVYRRSS 240

```

RESULT 4 US-10-706-691-16

```

; Sequence 16, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Seqwin99, version 1.02
; SEQ ID NO 16
; LENGTH: 416
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-16

```

```

Query Match      100.0%; Score 1205; DB 16; Length 416;

```


Best Local Similarity 100.0%; Pred. No. 1.2e-101;
Matches 240; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKRREGALSRSARLAPFVYLLLIQTDPLEGVNITSVRLIHGTGKALLSVQYST 60
DB 1 MKRREGALSRSARLAPFVYLLLIQTDPLEGVNITSVRLIHGTGKALLSVQYST 60
QY 61 SSDRPVVMQKLRDPVTVVOSIGTEVIGTLRPDRIRLFEENGSLLSLQADDEGT 120
DB 61 SSDRPVVMQKLRDPVTVVOSIGTEVIGTLRPDRIRLFEENGSLLSLQADDEGT 120
QY 121 EVEISITDFTGKTNILTVDPISRPQVLAFTVLESEAFLLNCSHENGTKPSYTW 180
DB 121 EVEISITDFTGKTNILTVDPISRPQVLAFTVLESEAFLLNCSHENGTKPSYTW 180
QY 181 LKDGKPLNDSRMLSPDQKVLITTRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240
DB 181 LKDGKPLNDSRMLSPDQKVLITTRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240

RESULT 5

US-10-706-691-41
Sequence 41, Application US/10706691
Publication No. US20040204352A1
GENERAL INFORMATION:
APPLICANT: Davids, Andrew Robert
APPLICANT: Pagan, Richard Joseph
APPLICANT: Phelps, Christopher Benjamin
APPLICANT: Power, Christine
APPLICANT: Chvatchko, Yolande
APPLICANT: Boeschert, Ursula
TITLE OF INVENTION: Cytokine antagonist molecules
FILE REFERENCE: 674582-2001
CURRENT APPLICATION NUMBER: US/10/706,691
CURRENT FILING DATE: 2003-11-12
PRIOR APPLICATION NUMBER: PCT/GB03/01851
PRIOR FILING DATE: 2003-04-30
PRIOR APPLICATION NUMBER: GB 0209884.6
PRIOR FILING DATE: 2002-04-30
NUMBER OF SEQ ID NOS: 43
SOFTWARE: Seqwin9, version 1.02
SEQ ID NO 41
LENGTH: 416
TYPE: PRT
ORGANISM: Homo sapiens
US-10-706-691-41

Query Match 100.0%; Score 1205; DB 16; Length 416;
Best Local Similarity 100.0%; Pred. No. 1.2e-101;
Matches 240; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKRREGALSRSARLAPFVYLLLIQTDPLEGVNITSVRLIHGTGKALLSVQYST 60
DB 1 MKRREGALSRSARLAPFVYLLLIQTDPLEGVNITSVRLIHGTGKALLSVQYST 60
QY 61 SSDRPVVMQKLRDPVTVVOSIGTEVIGTLRPDRIRLFEENGSLLSLQADDEGT 120
DB 61 SSDRPVVMQKLRDPVTVVOSIGTEVIGTLRPDRIRLFEENGSLLSLQADDEGT 120
QY 121 EVEISITDFTGKTNILTVDPISRPQVLAFTVLESEAFLLNCSHENGTKPSYTW 180
DB 121 EVEISITDFTGKTNILTVDPISRPQVLAFTVLESEAFLLNCSHENGTKPSYTW 180
QY 181 LKDGKPLNDSRMLSPDQKVLITTRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240
DB 181 LKDGKPLNDSRMLSPDQKVLITTRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240

RESULT 6
US-10-112-944-434
Sequence 434, Application US/10112944
Publication No. US20040048249A1
GENERAL INFORMATION:

APPLICANT: Tang, Y. Tom
APPLICANT: Yang, Yonghong
APPLICANT: Wang, Gezhi
APPLICANT: Zhang, Jie
APPLICANT: Ren, Feiyan
APPLICANT: Xue, Aidong J.
APPLICANT: Wang, Jian-Rui
APPLICANT: Weinman, Tom
APPLICANT: Ghosh, Malabika
APPLICANT: Wang, Dunrui
APPLICANT: Zhao, Qing A.
APPLICANT: Wang, Zhiwei
TITLE OF INVENTION: No. US20040048249A1 Secreted Polypeptides
FILE REFERENCE: 805A
CURRENT APPLICATION NUMBER: US/10/112,944
CURRENT FILING DATE: 2002-03-28
PRIOR APPLICATION NUMBER: US 09/488,725
PRIOR FILING DATE: 2000-01-21
PRIOR APPLICATION NUMBER: US 09/491,404
PRIOR FILING DATE: 2000-01-25
PRIOR APPLICATION NUMBER: US 09/496,914
PRIOR FILING DATE: 2000-02-03
PRIOR APPLICATION NUMBER: US 09/515,126
PRIOR FILING DATE: 2000-02-28
PRIOR APPLICATION NUMBER: US 09/519,705
PRIOR FILING DATE: 2000-03-07
PRIOR APPLICATION NUMBER: US 09/540,217
PRIOR FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: US 09/552,929
PRIOR FILING DATE: 2000-04-18
PRIOR APPLICATION NUMBER: US 09/577,408
PRIOR FILING DATE: 2000-05-18
NUMBER OF SEQ ID NOS: 924
SOFTWARE: pc_fl_genes Version 5.0
SEQ ID NO 434
LENGTH: 256
TYPE: PRT
ORGANISM: Homo sapiens
US-10-112-944-434

Query Match 97.4%; Score 1174; DB 15; Length 256;
Best Local Similarity 97.1%; Pred. No. 4.1e-99;
Matches 233; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1 MKRREGALSRSARLAPFVYLLLIQTDPLEGVNITSVRLIHGTGKALLSVQYST 60
DB 1 MKRREGALSRSARLAPFVYLLLIQTDPLEGVNITSVRLIHGTGKALLSVQYST 60
QY 61 SSDRPVVMQKLRDPVTVVOSIGTEVIGTLRPDRIRLFEENGSLLSLQADDEGT 120
DB 61 SSDRPVVMQKLRDPVTVVOSIGTEVIGTLRPDRIRLFEENGSLLSLQADDEGT 120
QY 121 EVEISITDFTGKTNILTVDPISRPQVLAFTVLESEAFLLNCSHENGTKPSYTW 180
DB 121 EVEISITDFTGKTNILTVDPISRPQVLAFTVLESEAFLLNCSHENGTKPSYTW 180
QY 181 LKDGKPLNDSRMLSPDQKVLITTRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240
DB 181 LKDGKPLNDSRMLSPDQKVLITTRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240

RESULT 7
US-10-112-944-880
Sequence 880, Application US/10112944
Publication No. US20040048249A1
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Yang, Yonghong
APPLICANT: Wang, Gezhi
APPLICANT: Zhang, Jie
APPLICANT: Ren, Feiyan
APPLICANT: Xue, Aidong J.

```

; APPLICANT: Wang, Jian-Rui
; APPLICANT: Wehrman, Tom
; APPLICANT: Ghosh, Malabika
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Qing A.
; APPLICANT: Zhao, Zhiwei
; TITLE OF INVENTION: NO. US20040048249A1el Nucleic Acids and
; FILE REFERENCE: 805A
; CURRENT APPLICATION NUMBER: US/10/112,944
; CURRENT FILING DATE: 2002-03-28
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: US 09/496,914
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: US 09/515,126
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: US 09/519,705
; PRIOR FILING DATE: 2000-03-07
; PRIOR APPLICATION NUMBER: US 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 09/552,929
; PRIOR FILING DATE: 2000-04-18
; PRIOR APPLICATION NUMBER: US 09/577,408
; PRIOR FILING DATE: 2000-05-18
; NUMBER OF SEQ ID NOS: 924
; SOFTWARE: pc_FL_genes Version 5.0
; SEQ ID NO 880
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-112-944-880

```

```

Query Match      97.4%; Score 1174; DB 15; Length 256;
Best Local Similarity 97.1%; Pred. No. 4.1e-99;
Matches 233; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MKRERGLSRASRLARLPVYLLLIOTDPLEGNVITSPVRLHGTGKSLISVQYST 60
Db 1 MKRERGLSRASRLARLPVYLLLIOTDPLEGNVITSPVRLHGTGKSLISVQYST 60
Qy 61 SSDRPVVKMOLKRDKPTVVOISIGTEVIGTLRPDYRDRIRLFENGSLISDLQADGTY 120
Db 61 SSDRPVVKMOLKRDKPTVVOISIGTEVIGTLRPDYRDRIRLFENGSLISDLQADGTY 120
Qy 121 EVEISITDDTFTGEXTINLTVDVPISRPOVLVASTTLESEAFLLNCSHENGTKPSYTW 180
Db 121 EVEISITDDTFTGEXTINLTVDVPISRPOVLVASTTLESEAFLLNCSHENGTKPSYTW 180
Qy 181 LKDGKPLNDSRMLSPDQKVLITTRVLMEDDDLSCVENPISQGRSLPVKITVYRRSS 240
Db 181 LKDGKPLNDSRMLSPDQKVLITTRVLMEDDDLSCVENPISQGRSLPVKITVYRRSS 240

```

```

RESULT 8
US-10-706-691-18
; Sequence 18, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvalchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30

```

```

; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Seqwin99, version 1.02
; SEQ ID NO 18
; LENGTH: 418
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-18

```

```

Query Match      97.2%; Score 1171; DB 16; Length 418;
Best Local Similarity 97.5%; Pred. No. 1.5e-98;
Matches 234; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MKRERGLSRASRLARLPVYLLLIOTDPLEGNVITSPVRLHGTGKSLISVQYST 60
Db 1 MKRERGLSRASRLARLPVYLLLIOTDPLEGNVITSPVRLHGTGKSLISVQYST 60
Qy 61 SSDRPVVKMOLKRDKPTVVOISIGTEVIGTLRPDYRDRIRLFENGSLISDLQADGTY 120
Db 61 SSDRPVVKMOLKRDKPTVVOISIGTEVIGTLRPDYRDRIRLFENGSLISDLQADGTY 120
Qy 121 EVEISITDDTFTGEXTINLTVDVPISRPOVLVASTTLESEAFLLNCSHENGTKPSYTW 180
Db 121 EVEISITDDTFTGEXTINLTVDVPISRPOVLVASTTLESEAFLLNCSHENGTKPSYTW 180
Qy 181 LKDGKPLNDSRMLSPDQKVLITTRVLMEDDDLSCVENPISQGRSLPVKITVYRRSS 240
Db 181 LKDGKPLNDSRMLSPDQKVLITTRVLMEDDDLSCVENPISQGRSLPVKITVYRRSS 240

```

```

RESULT 9
US-10-706-691-22
; Sequence 22, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvalchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Seqwin99, version 1.02
; SEQ ID NO 22
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-22

```

```

Query Match      86.7%; Score 1045; DB 16; Length 207;
Best Local Similarity 100.0%; Pred. No. 2e-87;
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 34 VNITSPVRLHGTGKSLISVQYSTSSDRPVVKMOLKRDKPTVVOISIGTEVIGTLRP 93
Db 1 VNITSPVRLHGTGKSLISVQYSTSSDRPVVKMOLKRDKPTVVOISIGTEVIGTLRP 60
Qy 94 DYRDRIRLFENGSLISDLQADGTYEVEISITDDTFTGEXTINLTVDVPISRPOVLVA 153
Db 61 DYRDRIRLFENGSLISDLQADGTYEVEISITDDTFTGEXTINLTVDVPISRPOVLVA 120
Qy 154 STTVLESEAFLLNCSHENGTKPSYTWLKDGKPLNDSRMLSPDQKVLITTRVLMEDDD 213
Db 121 STTVLESEAFLLNCSHENGTKPSYTWLKDGKPLNDSRMLSPDQKVLITTRVLMEDDD 180

```

Oy. 214 LYSCHVENPISQGRSLPVKITVYRRSS 240
Db 181 LYSCHVENPISQGRSLPVKITVYRRSS 207

RESULT 10

US-10-706-691-26
; Sequence 26, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Seqman9, version 1.02
; SEQ ID NO 26
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-26

Query Match 86.7%; Score 1045; DB 16; Length 383;
Best Local Similarity 100.0%; Pred. No. 4,6e-87;
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 34 VNITSPVRLHGTGKSNLSVQYSTSSDRPVVKQKRPVTVVQSIGTEVIGTRP 93
Db 1 VNITSPVRLHGTGKSNLSVQYSTSSDRPVVKQKRPVTVVQSIGTEVIGTRP 60
Oy 94 DYRDRIRLFFENGSLLSVLQDLADGTYEVEISITDFTGKTNLTVDVPISRQVIVA 153
Db 61 DYRDRIRLFFENGSLLSVLQDLADGTYEVEISITDFTGKTNLTVDVPISRQVIVA 120
Oy 154 STTVLELSEAFNLCSHENGKPSYTWLKDGPILNDSRMILSPQKVLITTRVLMEDDD 213
Db 121 STTVLELSEAFNLCSHENGKPSYTWLKDGPILNDSRMILSPQKVLITTRVLMEDDD 180
Oy 214 LYSCHVENPISQGRSLPVKITVYRRSS 240
Db 181 LYSCHVENPISQGRSLPVKITVYRRSS 207

RESULT 11

US-10-706-691-4
; Sequence 4, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30

; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Seqman9, version 1.02
; SEQ ID NO 4
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-4

Query Match 47.3%; Score 570; DB 16; Length 114;
Best Local Similarity 100.0%; Pred. No. 2,9e-44;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 30 PLEGVNITSPVRLHGTGKSNLSVQYSTSSDRPVVKQKRPVTVVQSIGTEVIG 89
Db 1 PLEGVNITSPVRLHGTGKSNLSVQYSTSSDRPVVKQKRPVTVVQSIGTEVIG 60
Oy 90 TLRPDYRDRIRLFFENGSLLSVLQDLADGTYEVEISITDFTGKTNLTVDV 143
Db 61 TLRPDYRDRIRLFFENGSLLSVLQDLADGTYEVEISITDFTGKTNLTVDV 114

RESULT 12

US-10-706-691-24
; Sequence 24, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Seqman9, version 1.02
; SEQ ID NO 24
; LENGTH: 110
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-24

Query Match 45.5%; Score 548; DB 16; Length 110;
Best Local Similarity 100.0%; Pred. No. 2,8e-42;
Matches 110; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 34 VNITSPVRLHGTGKSNLSVQYSTSSDRPVVKQKRPVTVVQSIGTEVIGTRP 93
Db 1 VNITSPVRLHGTGKSNLSVQYSTSSDRPVVKQKRPVTVVQSIGTEVIGTRP 60
Oy 94 DYRDRIRLFFENGSLLSVLQDLADGTYEVEISITDFTGKTNLTVDV 143
Db 61 DYRDRIRLFFENGSLLSVLQDLADGTYEVEISITDFTGKTNLTVDV 110

RESULT 13

US-10-706-691-6
; Sequence 6, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules

FILE REFERENCE: 674582-2001
CURRENT APPLICATION NUMBER: US/10/706,691
CURRENT FILING DATE: 2003-11-12
PRIOR APPLICATION NUMBER: PCT/GB03/01851
PRIOR FILING DATE: 2003-04-30
PRIOR APPLICATION NUMBER: GB 0209884.6
PRIOR FILING DATE: 2002-04-30
NUMBER OF SEQ ID NOS: 43
SOFTWARE: SeqWin99, version 1.02
SEQ ID NO: 6
LENGTH: 94
TYPE: PRT
ORGANISM: Homo sapiens
US-10-706-691-6

Query Match 40.2%; Score 484; DB 16; Length 94;
Best Local Similarity 100.0%; Pred. No. 1,7e-36;
Matches 94; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 144 PISRQVAVASTVTVLESEAFTLNCSEHGKPSYTWLKDGPFLNDSRMILSPDQKVL 203
Db 1 PISRQVAVASTVTVLESEAFTLNCSEHGKPSYTWLKDGPFLNDSRMILSPDQKVL 60

Qy 204 ITRVLMEDDLYSCWENPISQGRSLPVKITVYR 237
Db 61 ITRVLMEDDLYSCWENPISQGRSLPVKITVYR 94

RESULT 14
US-09-909-320-320
Sequence 320, Application US/09909320
Patent No. US20020132240A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Grimaldi, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/909,320
CURRENT FILING DATE: 2002-01-04
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08

PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 320
LENGTH: 450
TYPE: PRT
ORGANISM: Homo Sapien
US-09-909-320-320

Query Match 23.4%; Score 282; DB 9; Length 450;
Best Local Similarity 31.7%; Pred. No. 4.3e-17;
Matches 72; Conservative 43; Mismatches 102; Indels 10; Gaps 7;

Qy 17 LAPVYLLIQTDLLEGVNTSPVRLHGVGKALLSVQYS--STSSDRPVVKQLKR- 73
Db 3 LKVFTEFLSPATGACSGIKVTPSHTVHGVGQALYVPHVHGFHTPASDIQII WLPERP 61

Qy 74 -DKPVTVQSGTGVIGTGLRDYDRIRLF-ENGSLILSDQLADEGTYEVEISIT--DDT 130
Db 62 HTMPKRYLLGSVSKSVDPDL--EYQKFTMPMPNNSLILNPLQFPDEGNYIVKNIQNGT 119

Qy 131 FTGKTNLTVDVVISRPQVLV-ASTVLESEAFTLNCSEHGKPSYTWLKDGPFLN 189
Db 120 LSASQKIQVTVDDVTVKPVVQIHPPSGAVEYVGMNLTLCHEGSTRLAYQWLKGRPVHT 179

Qy 190 DSRMLSPDQKVLITITRVLMEDDLYSCWENPISQGRSLPVKITVY 236
Db 180 SSTYSFSPQNNLTIIAPVTKEDIGNYSCLVNNPVSEMSDIIIMPIT 226

RESULT 15
US-09-909-088B-320
Sequence 320, Application US/09909088B
Patent No. US20020146709A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Goddard, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.

APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT FILING DATE: 2001-07-18
PRIOR APPLICATION NUMBER: US/09/909,088B
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 320
LENGTH: 450
TYPE: PRT
ORGANISM: Homo Sapien
US-09-909-088B-320

Query Match 23.4%; Score 282; DB 9; Length 450;
Best Local Similarity 31.7%; Pred. No. 4,3e-17;
Matches 72; Conservative 43; Mismatches 102; Indels 10; Gaps 7;

QY 17 LAPFYLLLIQTDPLEGVNITSPTVLHIGTVGKSLALSVQYS--STSSDRPVVKWQLKR- 73
DB 3 LKVFITFLSPATGACSGLKVTVPSTHTVAGVQALYLPVHGFTHPASDIQII-WLFRFP 61
QY 74 -DKPVTVQSIGTEVYIGTLRPDYRDRLPF-ENGSLISDLQLADEGTYEVEISIT-DDT 130
DB 62 HTMPKYLIGSVKSVVPLD--EYQHKFTMPMPNBSLLINPLQFPDEGNVIYKVINIQNGT 119
QY 131 FTGKETILVTDPVPSRPOVIV-ASTVYLSLSEAFLLNCSHENGTPKPSYTLKQKPLLN 189
DB 120 LSASOKIOVTVDDPKFVVQIHPPSGAVEYVGNNTLTCHVEGGTRLAYQWLKNGRPVHT 179
QY 190 DSRMLSPDOKVLTITRYLMEDDDLVSCVENPISQGRSLPKITIVY 236

DB 180 SSTYSFSPQNTLHIAPTYKEDIGNYSCLVNPVSEMSDIIIMPITY 226

Search completed: July 26, 2005, 16:21:18
Job time : 62.4446 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 26, 2005, 15:58:02 ; Search time 13.8684 Seconds
(without alignments)
1665.085 Million cell updates/sec

Title: US-10-706-691-20
Perfect score: 1205
Sequence: 1 MKRERGALSRRALRLAPF.....NPISQGRSLPVKITYRRSS 240

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues
Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR_79:.*
1: pir1.*
2: pir2.*
3: pir3.*
4: pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	207.5	17.2	278	JC1506	biliary glycoprote
2	207.5	17.2	341	JC1512	biliary glycoprote
3	202.5	16.8	278	A39037	carcinoembryonic a
4	186	15.4	458	JC1509	biliary glycoprote
5	183.5	15.2	272	I48268	biliary glycoprote
6	183.5	15.2	629	A46500	LY-9.2 antigen - m
7	181	15.0	521	S34338	biliary glycoprote
8	179.5	14.9	278	JC1507	biliary glycoprote
9	179.5	14.9	341	JC1511	biliary glycoprote
10	178.5	14.8	475	A54879	pregnancy-specific
11	168.5	14.0	475	I76668	pregnancy-specific
12	167	13.9	853	IJBONC	neural cell adhesi
13	166	13.8	858	IJRTNC	neural cell adhesi
14	165.5	13.7	299	S86749	junctional adhesio
15	164	13.6	458	S68177	C-CAM2a protein is
16	164	13.6	458	S23969	cell-adhesion mole
17	164	13.6	519	A44783	ecto-ATPase precu
18	161	13.4	458	WMMSR1	biliary glycoprote
19	161	13.4	521	JC1508	biliary glycoprote
20	160.5	13.3	725	JE0100	neural cell adhesi
21	160.5	13.3	1092	JN0635	neural cell adhesi
22	159	13.2	344	A27681	nonspecific cross-
23	158.5	13.2	709	A35364	carcinoembryonic a
24	158	13.1	321	JH0395	biliary glycoprote
25	158	13.1	351	JH0396	biliary glycoprote
26	158	13.1	417	JH0394	biliary glycoprote
27	158	13.1	464	C30127	transmembrane carc
28	158	13.1	526	A32164	biliary glycoprote
29	157	13.0	365	JC7780	coxsackie- and ade

30	156.5	13.0	761	1	IJHUNG	neural cell adhesi
31	155	12.9	324	2	G43354	pregnancy-specific
32	155	12.9	326	2	F43354	pregnancy-specific
33	155	12.9	333	2	A43354	pregnancy-specific
34	155	12.9	335	2	H43354	pregnancy-specific
35	155	12.9	395	2	D43354	pregnancy-specific
36	155	12.9	397	2	E43354	pregnancy-specific
37	155	12.9	406	2	C43354	pregnancy-specific
38	155	12.9	417	2	A28277	pregnancy-specific
39	155	12.9	419	2	A33258	pregnancy-specific
40	155	12.9	419	2	A31135	pregnancy-specific
41	155	12.9	426	2	A35964	pregnancy-specific
42	155	12.9	426	2	B33258	pregnancy-specific
43	155	12.9	426	2	A35341	pregnancy-specific
44	155	12.9	428	2	A27658	pregnancy-specific
45	154.5	12.8	725	2	JE0099	neural cell adhesi

ALIGNMENTS

RESULT 1

JC1506
biliary glycoprotein B - mouse
C:Species: Mus musculus (house mouse)
C:Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 09-Jul-2004
C:Accession: JC1506
R:McCuag, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.
Gene 127, 173-183, 1993
A:Title: Expression of the Bgp gene and characterization of mouse colon biliary glycopro
A:Reference number: JC1505; MUID:93273228; PMID:8500759
A:Accession: JC1506
A:Status: nucleic acid sequence not shown
A:Molecule type: mRNA
A:Residues: 1-278 <MCC>
A:Cross-references: UNIPROT:Q99232
C:Comment: This protein is expressed at the cell surface and plays a determinant role in
C:Genetics:
A:Gene: BgPB
C:Superfamily: biliary glycoprotein; carcinoembryonic antigen precursor amino-terminal h
C:Keywords: glycoprotein; receptor
F:1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
F:159-216/Domain: immunoglobulin homology <IMM>
F:87,104,153,195/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match	17.2%	Score	207.5	DB	2	Length	278
Best Local Similarity	32.1%	Pred. No.	9.3e-09				
Matches	54	Conservative	32	Mismatches	73	Indels	9
						Gaps	5
Qy	73	RDKPVTVVQSIGTEVIGTLR----	PDYRDRIRLPFENGSLLLSLDLQLADEGTYEVEISITD	128			
Db	69	KGNPVTNAELVHOVTGNTKTTTGPASGRETIVYNSGSLLIQRTVVDVTGVTTE--MTD	126				
Qy	129	DTF-TGSKTINLTVDVPISRPQVLVASTTVLSEAFTLNCSHENGTKPSTYTLKDGKPL	187				
Db	127	ENPRTEATVQFVHQVPTQPSLQVTTNTVKEL-DSVTLTCL-SNDICANIQLFNQSGL	184				
Qy	188	LNDSRMLLSPDQKVLTTITRVLMEDDLVSQWENPISQGRSLPVKITV	235				
Db	185	QLTERMTLSQNNSTLRIDPIKREDAGEYQCEISNPVSVKRSNIKLDI	232				

RESULT 2

JC1512
biliary glycoprotein H - mouse
C:Species: Mus musculus (house mouse)
C:Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 09-Jul-2004
C:Accession: JC1512
R:McCuag, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.
Gene 127, 173-183, 1993
A:Title: Expression of the Bgp gene and characterization of mouse colon biliary glycopro
A:Reference number: JC1505; MUID:93273228; PMID:8500759
A:Accession: JC1512

Db 84 TGTNTKTIK-----CPVHSGRETLVNSGLLIQRTVMKDTGVYTIE--MTDQN 128
Qy 131 F-----TGEKTNLTVDVPISRPQVLVASTVTLVLESEAFNLCSHENGTKPSYTWLKDQK 185
Db 129 YRRRVLTQO----FHVHKEPVTQPSQVNTTIVKEL-DSVTITCLSKD-RQAHIHWFNND 182
Qy 186 PLLNDSRMLLPDQKQVLITRVLMDDDLLYSQMVENPISQGRSLPVKITV 235
Db 183 TLLITEKMTTQAGLILKIDPIKREDAGEYQCEISNPVSKRSIKLEV 232

RESULT 6
A46500
Ly-9.2 antigen - mouse
C:Species: Mus musculus (house mouse)
C:Date: 18-Jun-1993 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
C:Accession: A46500
R:Sandrin, M.S.; Gumley, T.P.; Henning, M.M.; Vaughan, H.A.; Genez, L.J.; Trapani, J.A.; J. Immunol. 149, 1636-1641, 1992
A:Title: Isolation and characterization of cDNA clones for mouse Ly-9.
A:Reference number: A46500; MUID:92373005; PMID:1506686
A:Accession: A46500
A>Status: Preliminary
A:Molecule type: mRNA; protein
A:Residues: 1-629 <SAN>
A:Cross-references: GB:M84412; NID:g198931; PIDN:AAA39468.1; PID:g198932
A:Experimental source: C57BL/6
A:Note: Sequence extracted from NCBI backbone (NCBIN:111651, NCBIP:111654)
C:Keywords: transmembrane protein

Query Match 15.2%; Score 183.5; DB 2; Length 629;
Best Local Similarity 26.9%; Pred. No. 1.9e-06;
Matches 59; Conservative 43; Mismatches 98; Indels 19; Gaps 8;

Qy 19 PFVYLLLIQTDPLEGVNTSPVRLHGTGKSAVLSQVSTSDRPPVVKQLKDKPVT 78
Db 14 PLLFLM----GLGASGKETPTVISGMLGSGVTFSLNISKDAETHEII-WNC---PPKA 65

Qy 79 VVQSIGTEVIGTLRDYDRIRLPENG-SLLSLDLQADEGTVEVEISITDITGKTI 137
Db 66 LALVYFKDITLQKGYNGRLKVSDEGYSLYNSNLTKSDSGSYHAQINQKRVILTTNKEF 125

Qy 138 NLTVDPVPISRPQVLVASTVTLVLEL-SEAFNLCSHENGTKPS--YTWLKDQKPLNDSRML 194
Db 126 TLHIYEKLQKQIIVSVTPSDTFLICT-VKGTQDSVQVSWTRZ-----DTHLN 178

Qy 195 LSPQKQVLITRVLMDDDLLYSQMVENPISQGRSLPVKI 233
Db 179 TYDGSHTLRVQSVCDPLPYTCRAWNPVSNQSQPVRI 217

RESULT 7
S34338
Biliary glycoprotein F - mouse
C:Alternate names: mouse hepatitis virus (MHV) receptor glycoprotein
C:Species: Mus musculus (house mouse)
C:Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 09-Jul-2004
C:Accession: S34338; JCI510; A41093
R:Huang, D.C.; Huang, X.F.; Novel, M.; Novel, G.
A:Description: A Clp-family gene present on the lactose-protease plasmid of lactococcus
A:Reference number: S34338
A:Accession: S34338
A>Status: Preliminary
A:Molecule type: mRNA
A:Residues: 1-521 <HUA>
A:Cross-references: UNIPROT:Q61352; EMBL:X67281; NID:g312585; PIDN:CAA47698.1; PID:g3125
R:McCuig, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.
Gene 127, 173-183, 1993
A:Title: Expression of the Bgp gene and characterization of mouse colon biliary glycopro
A:Reference number: JCI505; MUID:93273228; PMID:8500759
A:Accession: JCI510
A:Molecule type: mRNA

A:Residues: 1-81,'Q',83-141,'P',143-521 <MCC>
A:Cross-references: GB:X67281
R:Williams, R.K.; Jiang, G.S.; Holmes, K.V.
Proc. Natl. Acad. Sci. U.S.A. 88, 5533-5536, 1991
A:Title: Receptor for mouse hepatitis virus is a member of the carcinoembryonic antigen
A:Reference number: A41093; MUID:91288498; PMID:1648219
A:Accession: A41093
A>Status: Preliminary
A:Molecule type: protein
A:Residues: 35-59 <Wlu>
C:Comment: This protein is expressed at the cell surface and plays a determinant role in
C:Genetics:
A:Gene: Bgpf
C:Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termi
C:Keywords: glycoprotein; receptor
F:1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
F:160-219/Domain: immunoglobulin homology <IMM1>
F:254-303/Domain: immunoglobulin homology <IMM2>
F:339-396/Domain: immunoglobulin homology <IMM3>
F:87,104,148,199,206,210,226,258,290,294,304,333,375/Binding site: carbohydrate (Asn)
Query Match 15.0%; Score 181; DB 2; Length 521;
Best Local Similarity 27.8%; Pred. No. 2.4e-06;
Matches 47; Conservative 34; Mismatches 80; Indels 8; Gaps 4;

Qy 73 RDKPVTVQSIGTEVIGTLR----PDYDRIRLPENGSLLLSLDLQADEGTVEVEISITD 128
Db 69 KGNPVTNAEIVHFVTGNTKTTGCPAHSGRETIVNSGLLIQRTVMKDTGVYTIE--MTD 126

Qy 129 DTF-TGEKTNLTVDVPISRPQVLVASTVTLVLESEAFNLCSHENGTKPSYTWLKDQK 186
Db 127 ENFRTEATVQFHVHQLLKPNTSNNPNVEGDDSVSLTCDSTDPDNITLYLSRNGES 186

Qy 187 LLNDSRMLLPDQKQVLITRVLMDDDLLYSQMVENPISQGRSLPVKITV 235
Db 187 LSEGRKLKSEGRTLLNTRNDTGPYVCETRNPNVSNRSDPFLNI 235

RESULT 8
JCI507
Biliary glycoprotein C - mouse
C:Species: Mus musculus (house mouse)
C:Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 09-Jul-2004
C:Accession: JCI507
R:McCuig, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.
Gene 127, 173-183, 1993
A:Title: Expression of the Bgp gene and characterization of mouse colon biliary glycopro
A:Reference number: JCI505; MUID:93273228; PMID:8500759
A:Accession: JCI507
A:Molecule type: mRNA
A:Residues: 1-278 <MCC>
A:Cross-references: UNIPROT:Q61350; GB:X67278
C:Comment: This protein is expressed at the cell surface and plays a determinant role in
C:Genetics:
A:Gene: Bgpc
C:Superfamily: biliary glycoprotein; carcinoembryonic antigen precursor amino-terminal h
C:Keywords: glycoprotein; receptor
F:1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
F:75-124/Domain: immunoglobulin homology <IMM1>
F:159-216/Domain: immunoglobulin homology <IMM2>
F:71,89,104,153,195/Binding site: carbohydrate (Asn) (covalent) #status predicted
Query Match 14.9%; Score 179.5; DB 2; Length 278;
Best Local Similarity 31.7%; Pred. No. 1.4e-06;
Matches 45; Conservative 29; Mismatches 63; Indels 5; Gaps 4;

Qy 95 YDRIRLPENGSLLLSLDLQADEGTVEVEISITDITF-TGEKTNLTVDVPISRPQVLVA 153
Db 95 YSGREIYNSGLLFQMTWKDNGVTLD--WTDENYRQTQATVRFVHQVPTQPFLOVT 152

Qy 154 STTVLSEAFNLCSHENGTKPSYTWLKDQKPLNDSRMLLPDQKQVLITRVLMDDD 213
Db 153 NTTVKEL-DSVTITCL-SNDIGANIQLVFNLSQSLQLTERMTLSQNNLSILRIDPIKREDAG 210

Qy 214 LYSWMVENPISQGRSLPVKITV 235
 Db 211 EYQCEISNPVSVRRSNSIKLDI 232

RESULT 9
 JC1511
 biliary glycoprotein G - mouse
 C;Species: Mus musculus (house mouse)
 C;Date: 24-Feb-1996 #sequence_revision 24-Feb-1994 #text_change 09-Jul-2004
 C;Accession: JC1511
 R;McCuaiig, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.
 Gene 127, 173-183, 1993
 A;Title: Expression of the Bgp gene and characterization of mouse colon biliary glycoprotein G
 A;Reference number: JC1505; MUID:93273228; PMID:8500759
 A;Accession: JC1511
 A;Molecule type: DNA
 A;Residues: 1-341 <MCC>
 A;Cross-references: UNIPROT:Q61353; GB:X67282
 C;Comment: This protein is expressed at the cell surface and plays a determinant role in pregnancy-specific glycoprotein - mouse
 C;Genetics:
 A;Gene: Bgpg
 C;Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-terminal
 C;Keywords: glycoprotein; receptor
 F;1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
 F;75-124/Domain: immunoglobulin homology <IMM1>
 F;159-216/Domain: immunoglobulin homology <IMM2>
 F;71,89,104,153,195/Binding site: carbohydrate (Asn) (covalent) #status Predicted

Query Match 14.9%; Score 179.5; DB 2; Length 341;
 Best Local Similarity 31.7%; Pred. No. 1.8e-06;
 Matches 45; Conservative 29; Mismatches 63; Indels 5; Gaps 4;

Qy 95 YRDRIRLFPENGSLLSLDLQADEGYEVEISITDDTF-TGEKTIINLVDPISRPQVLVA 153
 Db 95 YSGREIIYSGSLFLFQMITKMDGVYTLD--MTDENYRRTQATVRFHVQVPTQFFLQVT 152

Qy 154 STTVLESEATLNCSHENGKTPSYTLKDGKPLNDSRMLSPDQKVLITRVLMEDDD 213
 Db 153 NTVTKEL-DSVTLTCL-SNDIGANIQLWFLNSQSLQLTERMTLSQNSILRIDPIKREDAG 210

Qy 214 LYSWMVENPISQGRSLPVKITV 235
 Db 211 EYQCEISNPVSVRRSNSIKLDI 232

RESULT 10
 A54879
 pregnancy-specific glycoprotein rncgm3 - rat
 C;Species: Rattus norvegicus (Norway rat)
 C;Date: 19-Jan-1996 #sequence_revision 19-Jan-1996 #text_change 09-Jul-2004
 C;Accession: A54879
 R;Chen, H.; Chen, C.L.; Chou, J.Y.
 Biochemistry 33, 9615-9626, 1994
 A;Title: Characterization of two promoters of a rat pregnancy-specific glycoprotein gene
 A;Reference number: A54879; MUID:94347731; PMID:8068638
 A;Accession: A54879
 A;Status: preliminary
 A;Molecule type: DNA
 A;Residues: 1-475 <CHE>
 A;Cross-references: UNIPROT:Q62664; GB:U09815; NID:9497254; PIDN:AAA56870.1; PID:g497255
 A;Note: authors translated the codon GGT for residue 64 as Gly
 C;Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-terminal
 C;Keywords: glycoprotein
 F;1-137/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEA1>
 F;242-378/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEA2>
 F;399-456/Domain: immunoglobulin homology <IMM2>

Query Match 14.8%; Score 178.5; DB 2; Length 475;
 Best Local Similarity 31.5%; Pred. No. 3.3e-06;
 Matches 67; Conservative 26; Mismatches 105; Indels 15; Gaps 8;

Qy 29 DPLEGVNITSPVRLIHGTGKSALLSVQYSSTSDRPVVKW-----QLKRDKDPVTVVQSI 83
 Db 269 DPTVSPLMIEPVPRAHVEGESVLLVH--NLPEALQTESYKGVYSLKEFK--IAEYSI 324

Qy 84 GTEVIGTLRPDPYDRIRLFPENGSLLSLDLQADEGYEVEISITDDTFTEKTIINLVDPV 143
 Db 325 ATKSVFP-GPAHRGRATGVNGLSLQDLTARDTGLYTL-VTLDSNSKIKSAPVQVTVHK 382

Qy 144 PISRPQVLVASITV-LELSEAFILNCSHENGKTPSYTLKDGKPLNDSRMLSPDQKVL 202
 Db 383 PVTQPLRVTESVTVQSSVVF--CLSDN-TGVSIRLWFKNLQNLQVTERMTLSPSNCQL 439

Qy 203 TITRVLMEDDDLYSWMVENPISQGRSLPVKITV 235
 Db 440 RIHDVREDAGQYRCEAFNPISKTSRPPVSLAV 472

RESULT 11
 I76668
 pregnancy-specific glycoprotein - mouse
 C;Species: Mus musculus (house mouse)
 C;Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 09-Jul-2004
 C;Accession: I76668
 R;Rudert, F.; Saunders, A.M.; Thompson, J.A.; Rebstock, S.; Zimmermann, W.A.
 Mamm. Genome 3, 262-273, 1992
 A;Title: Characterization of murine carcinoembryonic antigen gene family members.
 A;Reference number: I57007; MUID:92345715; PMID:1638085
 A;Accession: I76668
 A;Status: preliminary; translated from GB/EMBL/DBJ
 A;Molecule type: mRNA
 A;Residues: 1-475 <RES>
 A;Cross-references: UNIPROT:Q62056; GB:M83344; NID:g200316; PIDN:AAA39916.1; PID:g200317
 C;Genetics:
 A;Gene: CGM5
 C;Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-terminal
 C;Keywords: glycoprotein
 F;1-137/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEA1>
 F;399-456/Domain: immunoglobulin homology <IMM>

Query Match 14.0%; Score 168.5; DB 2; Length 475;
 Best Local Similarity 28.8%; Pred. No. 1.9e-05;
 Matches 70; Conservative 35; Mismatches 105; Indels 33; Gaps 11;

Qy 13 RALRLAPFVYL--LLIQTD-----PLEGVNITSPVRLIHGTGKSALLSVQYSSTSS 62
 Db 243 RTLNRPRIELAHYLVQVDTLSLSCCHPLDSPQLSIDPLPPHAAEGRVLLQVH--NLPE 300

Qy 63 DRPVVKWQLKRDKPV--TVV-----QSIGTE--VIGTLRPDYDRIRLFPENGSLLSLDLQ 113
 Db 301 DVQTFESWY----KGVYSTILFQIAKYSIATKSIIMGYAR---SRRETVTYNGSLLLQDVT 353

Qy 114 LADEGYEVEISITDDTFTEKTIINLVDPV-PISRPQVLVASITVLELSEAFILNCSHEN 172
 Db 354 EKDSGVYTL---ITDTSNMGVETAHQVNVHKLATQPVIKATDSTVRVQGSVIFTCFSDN 410

Qy 173 GTPSYTLKDGKPLNDSRMLSPDQKVLITRVLMEDDDLYSWMVENPISQGRSLPVK 232
 Db 411 -TGVSIRLWFLNORLQVTERMTLSPSKQQLWIRTKEDAGEYQCEAFNPVSVKTSILPVI 469

Qy 233 ITV 235
 Db 470 LAV 472

RESULT 12
 IJBONC
 neural cell adhesion molecule short domain form precursor - bovine
 N;Alternate names: NCAM-140
 C;Species: Bos primigenius taurus (cattle)
 C;Date: 31-Mar-1993 #sequence_revision 31-Mar-1993 #text_change 09-Jul-2004
 C;Accession: A32976; A38778; B44290; S05402
 R;Lipkin, V.M.; Khrantsov, N.V.; Andreeva, S.G.; Moshnyakov, M.V.; Petukhova, G.V.; Rakhit
 FEBS Lett. 254, 69-73, 1989

A>Title: Calmodulin-independent bovine brain adenylate cyclase. Amino acid sequence and
 A:Reference number: A32976; MUID:89378239; PMID:2776887
 A:Accession: A32976
 A:Molecule type: mRNA
 A:Residues: 1-853 <UNP>
 A:Cross-references: UNIPROT:P31836; GB:X16451; NID:960; PIDN:CAA34470.1; PID:961
 A:Accession: A38778
 A:Molecule type: protein
 A:Residues: 20-35;51-61;113-117;122-147;155-161;262-275;279-302;353-360;369-382;544-562;
 A>Note: the authors identified this protein as calmodulin-independent adenylate cyclase
 R:Rougou, G.; Marshak, D.R.
 J. Biol. Chem. 261, 3396-3401, 1986
 A>Title: Structural and immunological characterization of the amino-terminal domain of
 A:Reference number: A44290; MUID:86140120; PMID:3512556
 A:Accession: B44290
 A:Molecule type: protein
 A:Residues: 20-36 <ROU>
 A>Note: 23-Glu was also found
 C:Comment: NCAM mediates cell-cell adhesion via homophilic binding with another NCAM mol
 C:Superfamily: neural cell adhesion molecule; fibronectin type III repeat homology; immu
 F:1-19/Domain: signal sequence #status predicted <SIG>
 F:20-719/Domain: extracellular #status predicted <EXT>
 F:132-191/Domain: immunoglobulin homology <IMM1>
 F:152-156/Region: heparin binding #status predicted
 F:161-165/Region: heparin binding #status predicted
 F:228-288/Domain: immunoglobulin homology <IMM3>
 F:261-270/Region: NCAM binding #status predicted
 F:321-396/Domain: immunoglobulin homology <IMM4>
 F:428-490/Domain: immunoglobulin homology <IMM5>
 F:527-604/Domain: fibronectin type III repeat homology <FN3A>
 F:633-693/Domain: fibronectin type III repeat homology <FN3B>
 F:720-737/Domain: transmembrane #status predicted <TM>
 F:738-853/Domain: intracellular #status predicted <INT>
 F:41-96,139-189,235-286,328-394,435-486/Disulfide bonds: #status predicted
 F:222,314,346,432,458,487/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 13.9%; Score 167; DB 1; Length 853;
 Best Local Similarity 30.9%; Pred. No. 5.4e-05;
 Matches 55; Conservative 28; Mismatches 73; Indels 22; Gaps 7;
 Qy 61 SSDPVPVWQWKRPVTVVQSGTEVIGTLPDYPDRIRLFENGSLLSLDQLADEGTY 120
 Db 143 SSLPPTTIWKHK-----GRDVI--LKKDV--RFVLTNNYLQIRGIKKTDEGTY 187
 Qy 121 EVEISITDDTFTGKTNLTVDVP--ISRPOVLVASTTTLVLESAFTLNCSHENGTKPSY 178
 Db 188 RCEGRILARGEINFKDIQVIVNVPPTVQARQSVNATA--NLGQSVTLVCNAEGFPEPTV 245
 Qy 179 TWLKDQKPLLN--DSRMLLSPDQKVLTTIRVLMEDDDLYSCMVENPI--SQGRSLPVKI 233
 Db 246 SWTKDGQIEDEKYLFSDDSELTIRKVDKNDEAEYVCTIAENKAGEQDASIHLYK 303

RESULT 13
 JORTNC
 N:Alternate names: NCAM-140
 C:Species: Rattus norvegicus (Norway rat)
 C>Date: 30-Sep-1991 #sequence revision 30-Sep-1991 #text_change 09-Jul-2004
 C:Accession: S00846; B37795; I58136
 R:Small, S.J.; Shull, G.E.; Santoni, M.J.; Akeson, R.
 J. Cell Biol. 105, 2335-2345, 1987
 A>Title: Identification of a cDNA clone that contains the complete coding sequence for a
 A:Reference number: S00846; MUID:88059265; PMID:3680385
 A:Accession: S00846
 A:Molecule type: mRNA
 A:Residues: 1-858 <SMA>
 A:Cross-references: UNIPROT:P13596; EMBL:X06564
 R:Small, S.J.; Akeson, R.

J. Cell Biol. 111, 2089-2096, 1990
 A>Title: Expression of the unique NCAM VASE exon is independently regulated in distinct
 A:Reference number: A37795; MUID:91035620; PMID:1699951
 A:Accession: B37795
 A:Molecule type: mRNA
 A:Residues: 340-381 <SM2>
 R:Small, S.J.; Haines, S.L.; Akeson, R.A.
 Neuron 1, 1007-1017, 1988
 A>Title: Polypeptide variation in an N-CAM extracellular immunoglobulin-like fold is dev
 A:Reference number: I58136; MUID:90166485; PMID:2483093
 A:Accession: I58136
 A>Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 355-364 <RES>
 A:Cross-references: GB:M32611; NID:9205643; PIDN:AAA41679.1; PID:9205644
 C:Comment: NCAM mediates cell-cell adhesion via homophilic binding with another NCAM mol
 C:Genetics:
 A:Gene: NCAM
 C:Superfamily: neural cell adhesion molecule; fibronectin type III repeat homology; immu
 C:Keywords: alternative splicing; brain; cell adhesion; duplication; heparin binding; si
 F:1-19/Domain: signal sequence #status predicted <SIG>
 F:20-858/Product: neural cell adhesion molecule, short domain form #status predicted <MA
 F:20-721/Domain: extracellular #status predicted <EXT>
 F:34-98/Domain: immunoglobulin homology <IMM1>
 F:132-191/Domain: immunoglobulin homology <IMM2>
 F:152-156/Region: heparin binding #status predicted
 F:161-165/Region: heparin binding #status predicted
 F:228-290/Domain: immunoglobulin homology <IMM3>
 F:263-272/Region: NCAM binding #status predicted
 F:323-398/Domain: immunoglobulin homology <IMM4>
 F:430-492/Domain: immunoglobulin homology <IMM5>
 F:529-606/Domain: fibronectin type III repeat homology <FN3A>
 F:635-695/Domain: fibronectin type III repeat homology <FN3B>
 F:722-739/Domain: transmembrane #status predicted <TM>
 F:740-858/Domain: intracellular #status predicted <INT>
 F:41-96,139-189,235-288,330-396,437-490/Disulfide bonds: #status predicted
 F:222,316,348,434,460,489/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 13.8%; Score 166; DB 1; Length 858;
 Best Local Similarity 30.8%; Pred. No. 6.5e-05;
 Matches 54; Conservative 28; Mismatches 74; Indels 24; Gaps 7;
 Qy 61 SSDPVPVWQWKRPVTVVQSGTEVIGTLPDYPDRIRLFENGSLLSLDQLADEGTY 120
 Db 143 SSLPPTTIWKHK-----GRDVI--LKKDV--RFVLSNNYLQIRGIKKTDEGTY 187
 Qy 121 EVEISITDDTFTGKTNLTVDVP--ISRPOVLVASTTTLVLESAFTLNCSHENGTKPSY 178
 Db 188 RCEGRILARGEINFKDIQVIVNVPPTVQARQSVNATA--NLGQSVTLVCADGFPPEPTM 245
 Qy 179 TWLKDQKPLLN----DSRMLLSPDQKVLTTIRVLMEDDDLYSCMVENPI--SQGRSLPVKI 233
 Db 246 SWTKDGQPIEENEDDEKHIFSDSELTIRNVDKNDEAEYVCTIAENKAGQDASIHLYK 305

RESULT 14
 S56749
 N:Alternate names: F11 platelet antigen; platelet adhesion molecule PAM-1; platelet F11;
 C:Species: Homo sapiens (man)
 C>Date: 27-Oct-1995 #sequence revision 01-Feb-2002 #text_change 09-Jul-2004
 C:Accession: A59406; S56749
 R:Ozaki, H.; Ishii, K.; Horiuchi, H.; Arai, H.; Kawamoto, T.; Okawa, K.; Iwamatsu, A.; K
 J. Immunol. 163, 553-557, 1999
 A>Title: Cutting edge: combined treatment of TNF-alpha and IFN-gamma causes redistributi
 A:Reference number: A59406; MUID:99323940; PMID:10395639
 A:Accession: A59406
 A>Status: preliminary
 A:Molecule type: DNA
 A:Residues: 1-299 <OZA>
 A:Cross-references: UNIPROT:Q9Y624; GB:AA42050; NID:95326797; PIDN:AA42050.1

Search completed: July 26, 2005, 16:14:15
Job time : 14.8684 secs

R;Naik, U.P.; Ehrlich, Y.H.; Kornecski, E.
Biochem. J. 310, 155-162, 1995
A;Title: Mechanisms of platelet activation by a stimulatory antibody: cross-linking of a
A;Reference number: S56749; MUID:95374438; PMID:7646439

A;Accession: S56749
A;Molecule type: protein
A;Residues: 28-49,'X',51-53;62-73,'E',75-103;123,'F',125-130;'FKDXTIYLNXY','LT',206,'X',
A;Note: the order of the peptides other than the amino terminus was not determined
C;Genetics:

A;Gene: JAM
C;Keywords: glycoprotein; phosphoprotein; platelet aggregation; platelet membrane
F;1-25/Domain: signal sequence #status predicted <SIG>
F;26-299/Product: junctional adhesion molecule #status predicted <MAT>

Query Match 13.7%; Score 165.5; DB 2; Length 299;
Best Local Similarity 26.2%; Pred. No. 1.8e-05;
Matches 60; Conservative 31; Mismatches 111; Indels 27; Gaps 8;

Qy 6 GALSRASRALRPVYLLIOTPLEGVNITSPVRLIHGTGKSAALLSVQYSSTSSDRP 65

Db 2 GTKAQVERKL-LCFLAILLCSALGSVTVHSSEPEVRIPENNPVKLSCAYSGFSS--P 58

Qy 66 VVKWQLKRDKEPTVVQSIGTEVI---GTLRPDYDRIRLPENGSLLLDLQLADEGYEV 122

Db 59 RVENKFD-----QGDTRLVCYNNKITASYEDRVTFPLTG-ITPKSVTRDTGTTC 109

Qy 123 EISITDDTFTGKTNILTVDPISRPQVLVASTTVLESEAFTLNCSHENGTKPS-YTWL 181

Db 110 MYSEGGNSYGEVKVLIVLPSPKPTVNIPISSAT--IGNRAVLTCSEQDGSPPEYXTWF 167

Qy 182 KDGKPL-----LNDSRMLSPDQKVLITRVLMEDDDLVSCMVEN 221

Db 168 KDGIVMPTNPKSTRAFNSSVYLNPTTGELVDFPLSASDTGEYSCARN 216

RESULT 15

S68177
C-CAM2a protein isoform precursor - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 15-Feb-1997 #sequence_revision 13-Mar-1997 #text_change 09-Jul-2004
C;Accession: S68177
R;Lucka, L.; Cichocka, I.; Baemler, K.; Bechler, K.; Reutter, W.
Eur. J. Biochem. 234, 527-535, 1995
A;Title: A short isoform of carcinoembryonic-antigen-related rat liver cell-cell adhesio
A;Reference number: S68177; MUID:96128184; PMID:8536699
A;Accession: S68177
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-458 <LUC>
A;Cross-references: UNIPROT:Q63093; EMBL:X91137; NID:g1160272; PIDN:CAA62577.1; PID:g116
C;Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termin
F;1-139/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEA>
F;1-33/Domain: signal sequence #status predicted <SIG>
F;34-458/Product: C-CAM2a protein isoform #status predicted <MAT>
F;252-301/Domain: immunoglobulin homology <IMM>

Query Match 13.6%; Score 164; DB 2; Length 458;
Best Local Similarity 32.6%; Pred. No. 4.1e-05;
Matches 42; Conservative 24; Mismatches 61; Indels 2; Gaps 2;

Qy 107 LLLSLQLADEGTYEVEISITDDTFTGKTNILTVDPISRPQVLVASTTVLESEAFTL 166

Db 284 LFISNITNNSGTACFVNNTVGLSRTTVKNIITVFEPTQPSIQITNTTVKELG-SVTL 342

Qy 167 NCSHENGKPSYTWLKDQKPLNDSRMLLSPDQKVLITRVLMEDDDLVSCMVENPISQG 226

Db 343 TCFSKD-TGVSVRWLFNSQSLQTLDRMTLSQDNSTLRIDPIKREDAGDYQCEISNPVSPR 401

Qy 227 RSLPVKITV 235

Db 402 ISHPIKLDV 410

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OM protein - protein search, using sw model

Run on: July 26, 2005, 15:58:52 ; Search time 17.7207 Seconds
(without alignments)
1011.008 Million cell updates/sec

Title: US-10-706-691-20

Perfect score: 1205

Sequence: 1 MKRRGALSRRASRLRLAPF.....NPISQGRSLPVKITVYRRSS 240

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

- 1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep.*
- 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
- 3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
- 4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
- 5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
- 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	282	23.4	450	4	US-09-907-794A-320
2	282	23.4	450	4	Sequence 320, App
3	282	23.4	450	4	US-09-905-125A-320
4	282	23.4	450	4	Sequence 320, App
5	282	23.4	450	4	US-09-906-700-320
6	282	23.4	450	4	Sequence 320, App
7	282	23.4	450	4	US-09-903-603A-320
8	282	23.4	450	4	Sequence 320, App
9	282	23.4	450	4	US-09-904-920A-320
10	281	23.3	58	4	US-09-905-381A-320
11	170	14.1	316	4	Sequence 320, App
12	167.5	13.9	328	4	US-09-513-999C-5729
13	167.5	13.9	329	4	Sequence 13, Appl
14	167.5	13.9	332	4	Sequence 6428, Ap
15	165.5	13.7	299	3	US-09-949-016-6428
16	165.5	13.7	299	3	US-09-949-016-7327
17	165.5	13.7	299	3	Sequence 119, App
18	165.5	13.7	299	3	US-09-188-930-189
19	165.5	13.7	299	3	Sequence 331, App
20	165.5	13.7	299	3	US-09-462-270-2
21	165.5	13.7	299	4	Sequence 2, Appli
22	165.5	13.7	299	4	US-09-254-465A-1
23	165.5	13.7	299	4	Sequence 189, App
24	165.5	13.7	299	4	US-09-312-283C-189
25	165.5	13.7	299	4	Sequence 331, App
26	165.5	13.7	299	4	US-09-312-283C-331
27	165.5	13.7	299	4	Sequence 119, App
28	165.5	13.7	299	4	US-09-907-794A-119
29	165.5	13.7	299	4	Sequence 119, App
30	165.5	13.7	299	4	US-09-905-125A-119
31	165.5	13.7	299	4	Sequence 119, App
32	165.5	13.7	299	4	US-09-902-775A-119
33	165.5	13.7	299	4	Sequence 119, App
34	165.5	13.7	299	4	US-09-902-775A-119
35	165.5	13.7	299	4	Sequence 119, App
36	165.5	13.7	299	4	US-09-397-243D-3
37	165.5	13.7	299	4	Sequence 119, App
38	165.5	13.7	299	4	US-09-906-700-320
39	165.5	13.7	299	4	Sequence 119, App
40	165.5	13.7	299	4	US-09-903-603A-119
41	165.5	13.7	299	4	Sequence 119, App
42	165.5	13.7	299	4	US-09-904-920A-119
43	165.5	13.7	299	4	Sequence 119, App
44	165.5	13.7	299	4	US-09-904-920A-119
45	165.5	13.7	299	4	Sequence 119, App

ALIGNMENTS

RESULT 1

US-09-907-794A-320
; Sequence 320, Application US/09907794A
; Patent No. 6635468

; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnovers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kijavlin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tamas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/907,794A

; CURRENT FILING DATE: 2001-07-17

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

Sequence 119, App
Sequence 119, App
Sequence 119, App
Sequence 1, Appli
Sequence 22, Appl
Sequence 22, Appl
Sequence 6, Appli
Sequence 6, Appli
Sequence 26, Appl
Sequence 16, Appl
Sequence 6, Appli
Sequence 20, Appl
Sequence 10, Appl
Sequence 12, Appl
Sequence 2, Appli
Sequence 18, Appl
Sequence 8, Appli

; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-907-794A-320

Query Match 23.4%; Score 282; DB 4; Length 450;
Best Local Similarity 31.7%; Pred. No. 1.4e-19;
Matches 72; Conservative 43; Mismatches 102; Indels 10; Gaps 7;

Qy 17 LAPFVYLLIQTDPLEGVNITSPVRLIHGTVGKSALLSVQYS--STSSDRPVVKWQLKR- 73
Db 3 LKVFTTFLSPATGACGLKVTVPVSHTVHVGQALYLPVHYGHTPASDIQII-WLPERP 61

Qy 74 -DKPVTVVQSIGTEVIGTLRPDYDRIRLF-ENGSLLLSDQLADEGTYEVEISIT-DDT 130
Db 62 HTMPKYLGSVKNKSVVDDL--EYQHKFTMPMPNPNASLLINPLQFPDEGNYIVKVNIOGNGT 119

Qy 131 FTGEKTNLTVDVPISRPQVLV-ASTTVLELSEAFNLNCSHENGTKPSYTWLKGKPLN 189
Db 120 LSASQKIQTVDVDPVTPVQVQIHPGPSGAVEYVGNMTLTCHVEGTRLAYQWLKNGRPVHT 179

Qy 190 DSRMLLPDQKVLITITVLMEDDDLYSCWENPISQGRSLPVKITVY 236
Db 180 SSTYSFSPQNTLHIAPTVKEDIGNYSCLVRNPVSEMESDIIMPIIY 226

RESULT 2
US-09-905-125A-320
; Sequence 320, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,125A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-905-125A-320

Query Match 23.4%; Score 282; DB 4; Length 450;
Best Local Similarity 31.7%; Pred. No. 1.4e-19;
Matches 72; Conservative 43; Mismatches 102; Indels 10; Gaps 7;

Qy 17 LAPFVYLLIQTDPLEGVNITSPVRLIHGTVGKSALLSVQYS--STSSDRPVVKWQLKR- 73
Db 3 LKVFTTFLSPATGACGLKVTVPVSHTVHVGQALYLPVHYGHTPASDIQII-WLPERP 61

Qy 74 -DKPVTVVQSIGTEVIGTLRPDYDRIRLF-ENGSLLLSDQLADEGTYEVEISIT-DDT 130
Db 62 HTMPKYLGSVKNKSVVDDL--EYQHKFTMPMPNPNASLLINPLQFPDEGNYIVKVNIOGNGT 119

Qy 131 FTGEKTNLTVDVPISRPQVLV-ASTTVLELSEAFNLNCSHENGTKPSYTWLKGKPLN 189
Db 120 LSASQKIQTVDVDPVTPVQVQIHPGPSGAVEYVGNMTLTCHVEGTRLAYQWLKNGRPVHT 179

Qy 190 DSRMLLPDQKVLITITVLMEDDDLYSCWENPISQGRSLPVKITVY 236
Db 180 SSTYSFSPQNTLHIAPTVKEDIGNYSCLVRNPVSEMESDIIMPIIY 226

RESULT 3
US-09-902-775A-320

;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 320
;; LENGTH: 450
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-906-700-320

Query Match 23.4%; Score 282; DB 4; Length 450;
Best Local Similarity 31.7%; Pred. No. 1.4e-19;
Matches 72; Conservative 43; Mismatches 102; Indels 10; Gaps 7;

Qy 17 LAPFVYLLIQTDPLEGVNITSPVRLIHGTGKSAIISVQYS--STSSDRPVVKQLKR- 73
Db 3 LKVTFTLSPATGACSLGKVTVPSTHVGVGQALYLPVHYGFTHPASDIQII-WLPERP 61

Qy 74 -DKPVTVVQSIGTEVIGTLRPDYRDRIRLF-ENGSLLLSDIQLADEGTYEVEISIT-DDT 130
Db 62 HTMPKYLGSVNVKSVVVDL--EYQHKFTMPPNASLLINPLQFPDEGNYIVKVNIOGNGT 119

Qy 131 FTGEKTNLTVDVPIRPOVLV-ASTTVLESEAFNLCSHENGTKPSYTWLKDGPILLN 189
Db 120 LSASQKIQTVDVDPVKPVVQIHPHPPSGAVEYVGNMTLTCHVEGTRLAYQWLKNGRPVHT 179

Qy 190 DSRMLSPDQKVLITITRVLMDDDLLYSCMVNPISQGRSLPVKITVY 236
Db 180 SSTYSFSPQNTLHIAPTVKEDIGNYSCLVRNPVSEMESDIIMPIIY 226

RESULT 5
US-09-903-603A-320
; Sequence 320, Application US/09903603A
; Patent No. 6767995
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Deanoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: ROY, Margaret Ann
; APPLICANT: Stewart, Timothy A.

;; APPLICANT: Tumas, Daniel
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William, I.
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; TITLE OF INVENTION: Acids Encoding the Same
;; FILE REFERENCE: GNE.1618P2C12
;; CURRENT APPLICATION NUMBER: US/09/903, 603A
;; CURRENT FILING DATE: 2001-07-11
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: 2000-02-22
;; PRIOR APPLICATION NUMBER: US 60/143, 048
;; PRIOR FILING DATE: 1999-07-07
;; PRIOR APPLICATION NUMBER: US 60/145, 698
;; PRIOR FILING DATE: 1999-07-26
;; PRIOR APPLICATION NUMBER: US 60/146, 222
;; PRIOR FILING DATE: 1999-07-28
;; PRIOR APPLICATION NUMBER: PCT/US99/20594
;; PRIOR FILING DATE: 1999-09-08
;; PRIOR APPLICATION NUMBER: PCT/US99/20944
;; PRIOR FILING DATE: 1999-09-13
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/21547
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 320
;; LENGTH: 450
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-903-603A-320

Query Match 23.4%; Score 282; DB 4; Length 450;
Best Local Similarity 31.7%; Pred. No. 1.4e-19;
Matches 72; Conservative 43; Mismatches 102; Indels 10; Gaps 7;

Qy 17 LAPFVYLLIQTDPLEGVNITSPVRLIHGTGKSAIISVQYS--STSSDRPVVKQLKR- 73
Db 3 LKVTFTLSPATGACSLGKVTVPSTHVGVGQALYLPVHYGFTHPASDIQII-WLPERP 61

Qy 74 -DKPVTVVQSIGTEVIGTLRPDYRDRIRLF-ENGSLLLSDIQLADEGTYEVEISIT-DDT 130
Db 62 HTMPKYLGSVNVKSVVVDL--EYQHKFTMPPNASLLINPLQFPDEGNYIVKVNIOGNGT 119

Qy 131 FTGEKTNLTVDVPIRPOVLV-ASTTVLESEAFNLCSHENGTKPSYTWLKDGPILLN 189
Db 120 LSASQKIQTVDVDPVKPVVQIHPHPPSGAVEYVGNMTLTCHVEGTRLAYQWLKNGRPVHT 179

Qy 190 DSRMLSPDQKVLITITRVLMDDDLLYSCMVNPISQGRSLPVKITVY 236
Db 180 SSTYSFSPQNTLHIAPTVKEDIGNYSCLVRNPVSEMESDIIMPIIY 226

RESULT 6
US-09-904-920A-320
; Sequence 320, Application US/09904920A


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Query Match          23.4%; Score 282; DB 4; Length 450;
Best Local Similarity 31.7%; Pred. No. 1.4e-19;
Matches 72; Conservative 43; Mismatches 102; Indels 10; Gaps 7

QY 17 LABFVYLLLIQTDPLEGVNIITSPVRLIHGTGKSAIIIVQYS--STSSDRPVVWKQLKR- 73
DB 3 LKVTFTLSFATGACSGKLVTVFSHTVHGVRGQALYLPVHYGFHTPASDIQII-WLFRP 61

QY 74 -DKPVTVVQSIGTEVIGITLTPDYDRIRLF-ENGSLIIISDIQLADEGTYVEISIT-DDT 130
DB 62 HTWPKYLLGSVNSVVDL--EQHKFTMPPNASLLINLPQFPDEGNYIVKVNIOGNGT 119

QY 131 FTGKTNLTVDVPISRPQVLV-ASTTVLELSEAFITNCSHENGTKPSYTWLKGKPLLN 189
DB 120 LSASQKIQTIVDDPVTKVPVQIHPSPSGAVEYVGNNTLTCHVEGGRLAYQWMLKNGRPVHT 179

QY 190 DSRMLSPDQKVLITITVLMEDDDLLYSCMVENPISQGRSLPVKITVY 236
DB 180 SSTYSFSPQNTLHIAPVTKEDIGNYSCLVRNPVSEMSDIIMPIIY 226

RESULT 7
US-09-909-064-320
; Sequence 320, Application US/09909064
; Patent No. 681849
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerrietsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,064
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089

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; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-909-064-320

Query Match      23.4%; Score 282; DB 4; Length 450;
Best Local Similarity 31.7%; Pred. No. 1.4e-19;
Matches 72; Conservative 43; Mismatches 102; Indels 10; Gaps 7;

Qy 17 LAPFVLLLIQTDPLEGVNITSPVRLIHGTGKALLSVQYS--STSSDRPVVKWQLKR- 73
Db 3 LKVFVTFSLFATGACSGKLVTPSHTVHGVGRQALYLPVHYGFHTPASDIQII-WLPERP 61

Qy 74 -DKPVTVVQSIGTEVIGTLRPDYDRIRLP-ENGSLLLSDLOLADGTYEVEISIT-DDT 130
Db 62 HTMPKYLIGSVNKSVPDDL--EYQHKFTMPPNASLLINPLQFPDEGNYIVKVNIOQNGT 119

Qy 131 FTGKKTINLTVDVPIISRPOVLV-ASTTVLELSEAFNLCSHENGTKPSYTWLKDGPPLN 189
Db 120 LSASQKIQTVDVDPVTKFVVQIHPPSGAVEYVGNMTLTCHEGGTRLAYQWLKNGRPVHT 179

Qy 190 DSRMLSPDQKVLITRVLMEDDDLVSCMVNPNISQGRSLPVKITVY 236
Db 180 SSTYSFSPQNTLHAPVTKEIDIGNYSCLVRNPVSEMSDIIMPIIY 226

RESULT 8
US-09-905-381A-320
; Sequence 320, Application US/09905381A
; Patent No. 6818746
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
```

```
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,381A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-905-381A-320

Query Match      23.4%; Score 282; DB 4; Length 450;
Best Local Similarity 31.7%; Pred. No. 1.4e-19;
Matches 72; Conservative 43; Mismatches 102; Indels 10; Gaps 7;

Qy 17 LAPFVLLLIQTDPLEGVNITSPVRLIHGTGKALLSVQYS--STSSDRPVVKWQLKR- 73
Db 3 LKVFVTFSLFATGACSGKLVTPSHTVHGVGRQALYLPVHYGFHTPASDIQII-WLPERP 61

Qy 74 -DKPVTVVQSIGTEVIGTLRPDYDRIRLP-ENGSLLLSDLOLADGTYEVEISIT-DDT 130
Db 62 HTMPKYLIGSVNKSVPDDL--EYQHKFTMPPNASLLINPLQFPDEGNYIVKVNIOQNGT 119

Qy 131 FTGKKTINLTVDVPIISRPOVLV-ASTTVLELSEAFNLCSHENGTKPSYTWLKDGPPLN 189
Db 120 LSASQKIQTVDVDPVTKFVVQIHPPSGAVEYVGNMTLTCHEGGTRLAYQWLKNGRPVHT 179

Qy 190 DSRMLSPDQKVLITRVLMEDDDLVSCMVNPNISQGRSLPVKITVY 236
Db 180 SSTYSFSPQNTLHAPVTKEIDIGNYSCLVRNPVSEMSDIIMPIIY 226

RESULT 9
US-09-906-618-320
; Sequence 320, Application US/099066618
; Patent No. 6828146
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Query Match      14.1%; Score 170; DB 4; Length 316;
Best Local Similarity 24.8%; Pred. No. 1.2e-08;
Matches 58; Conservative 46; Mismatches 110; Indels 20; Gaps 11;

Qy 16 RLAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSAALLSVQY-SSTSSDRPVVKWQKRD 74
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Db 4 KMPVMTLCAVRVTVAISVETPDVLRASQGSVTLPCITYHTSTSSREGLIQWDKTHT 63
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Qy 75 KPVTVVOISGTEVI-GTLRPDYRDIRLFEN-----GSLLSDLQLADEGTYVEISITD 128
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 64 ERVVIWPFNSKNYIHGEL---YKRVVISNNAEQSDASITIDQLTMADNGTYECSVLSMS 120
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Qy 129 DTFTGEXT-INLTVDVPISTRPOVLVASTTVLELSEAFTLNC-SHENGTKPSYTWLKDGP 186
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 121 DLEGNTKSRVRLVLPSPKPECGIEGTI--IGNNIQLTCOSKEGSPFQYSKRYN-- 176
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Qy 187 LLNDSRMLLSP-DQKVLITITRVLMEDDDLVSCMVENPISQGRSLPVKITVYRRS 239
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Db 177 ILNQEQLPAQASQPVSGLNKISNTDTSGYICTSSN--EEGTQF-CNITVAVRS 227
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RESULT 12
US-09-949-016-6428
; Sequence 6428, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6428
; LENGTH: 328
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6428

Query Match      13.9%; Score 167.5; DB 4; Length 328;
Best Local Similarity 26.1%; Pred. No. 2.2e-08;
Matches 55; Conservative 40; Mismatches 93; Indels 23; Gaps 8;

Qy 20 FVYLLLIQTDPLEGVNITSPVRLIHGTGKSAALLSVQYSSSTSSDRPVVKWQKEDKP-VT 78
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 7 WILLCLQTWP-EAGKDSIEFTVNGILGESVTFPVNIQEPQVK-IIAMTSKTSVAVVT 64
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Qy 79 VVQIGTEVIGTLRPDYRDIR-LFENGSLLSDLQLADEGTYVEISITDDTFTGKTI 137
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 65 PGDSETPAVTVTHRYRHALGPNVNLVSLRMEADGADYKADINTQADPTTYTRY 124
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Qy 138 NLTVDVPISTRPOVLVASTTVLELSEAFTLNCSHENGTK-PSYTWLKDGPKLNDSRML-- 194
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 125 NLQYRRLGKPKITQSLMASVNSTCNVTLTCSVEKEKNVTYN-----SPLGEGCNVLOI 180
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Qy 195 -LSPDOKVLITITRVLMEDDDLVSCMVENPIS 224
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 181 FQTPEDQELT-----YTCAQNPVS 200
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RESULT 13
US-09-149-476-483
; Sequence 483, Application US/09149476
; Patent No. 6420526
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
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; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCES: P2002P1
; CURRENT APPLICATION NUMBER: US/09/149,476
; CURRENT FILING DATE: 1998-09-08
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; EARLIER APPLICATION NUMBER: 60/040,162
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,333
; EARLIER FILING DATE: 1997-03-07
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; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,626
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; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,502
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,633
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,583
; EARLIER FILING DATE: 1997-05-23
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; EARLIER APPLICATION NUMBER: 60/047,503
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; EARLIER FILING DATE: 1997-05-23
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; EARLIER APPLICATION NUMBER: 60/047,584
; EARLIER FILING DATE: 1997-05-23
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; EARLIER APPLICATION NUMBER: 60/047,492
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; EARLIER APPLICATION NUMBER: 60/047,598
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,613
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,582
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,596
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,612
; EARLIER FILING DATE: 1997-05-23
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; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,601
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/043,580
; EARLIER FILING DATE: 1997-04-11
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; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,569
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,311
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; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,671
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,674
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,669
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,312
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; EARLIER APPLICATION NUMBER: 60/043,313
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,672
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,315
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/048,974
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/056,886
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,877
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,889
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,893
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,630
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,878
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; EARLIER FILING DATE: 1997-08-22
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; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,637
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,903
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,888
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; EARLIER APPLICATION NUMBER: 60/056,879
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,880
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,894
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; EARLIER APPLICATION NUMBER: 60/056,911
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; EARLIER APPLICATION NUMBER: 60/056,631
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; EARLIER APPLICATION NUMBER: 60/056,892
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; EARLIER APPLICATION NUMBER: 60/057,761
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/047,595
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,599
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,588
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,585
; EARLIER FILING DATE: 1997-05-23

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; EARLIER APPLICATION NUMBER: 60/047,586
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,590
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,594
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,589
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,593
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,614
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/043,578
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,576
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/047,501
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/043,670
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; EARLIER APPLICATION NUMBER: 60/056,632
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; EARLIER FILING DATE: 1997-08-22
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; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,875
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,862
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,887
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,908
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/048,964
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/057,650
; EARLIER FILING DATE: 1997-09-05
; EARLIER APPLICATION NUMBER: 60/056,884
; EARLIER FILING DATE: 1997-08-22
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; EARLIER FILING DATE: 1997-09-05
; EARLIER APPLICATION NUMBER: 60/049,610
; EARLIER FILING DATE: 1997-06-13
; EARLIER APPLICATION NUMBER: 60/061,060
; EARLIER FILING DATE: 1997-10-02

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Query Match 13.9%; Score 167.5; DB 4; Length 329;

Best Local Similarity 26.1%; Pred. No. 2.2e-08;

Matches 55; Conservative 40; Mismatches 93; Indels 23; Gaps 8;

Qy 20 FVILLIQTDPLEGVNTSPVRLIHGTGKSAALLSVQYSSSTSSDRPVVKNOLKDKP-VT 78

Db 7 WILLLCQTWP-EAAGKDSIFTVNGILGESVTFPVNIQBPQVK-IIAWTSTKSVAVVT 64

Qy 79 VVQSIGTEVIGTLRPDYDRIR-LFENGSLLLSLQLADEGTYEVEISITDDTFTGKTI 137

Db 65 PGDSETPAVVTVTHRYERIHAGPNYLVISDLRMDAGDYKADINTQADPVTTKRY 124

Qy 138 NLTVDPVIRPQVIVASTTVLSEAPTLCNSHENGTK-PSYTWLKQKGLINDSRML-- 194

Db 125 NLQIYRLGLRKPKITQSLMASVNSTCNVTLTCSVEKEKNVTYNW----SPLGEGNVLOI 180

Qy 195 -LSPDQKVLITITVLMEDDDLSCWVENPIS 224

Db 181 FQTPEDQELT-----YTCTAQNPVS 200

RESULT 14

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US-09-949-016-7327
; Sequence 7327, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH INFECTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7327
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7327

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[illegible]

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RESULT 15
US-09-188-930-189
; Sequence 189, Application US/09188930A
; Patent No. 6150502
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James Greg
; TITLE OF INVENTION: Compositions Isolated From Skin Cells
; TITLE OF INVENTION: and Methods For Their Use
; FILE REFERENCE: 11000.1011c1
; CURRENT APPLICATION NUMBER: US/09/188,930A
; CURRENT FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 348
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 189
; LENGTH: 299
; TYPE: prt
; ORGANISM: Human
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (247)...(247)
; NAME/KEY: UNSURE
; LOCATION: (289)...(289)
US-09-188-930-189

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Query Match      13.7%; Score 165.5; DB 3; Length 299;
Best Local Similarity 26.2%; Pred. No. 3e-08;
Matches 60; Conservative 31; Mismatches 111; Indels 27; Gaps 8

Qy      6 GALSRSARLRALAPFVYLLITQTLDPLEGVNITSPVRLHTGTGKSALISVQYSSTSSDRP 65
Db      2 GTKAQVERKL-LCLFILAILLCSLALGSVTVHSSEPEVRIPENNPVKLSCAYSGFSS--P 58

Qy      66 VVKWLKRDKPVTVVQSIGTEVI---GTLRPDYDRIRLFPENGSLILLSDLQADGTYEV 122
Db      59 RVWKFD-----QGTTLVCYNNKKTASYEDRVTFLEPTG-ITFKSVTRDTGTTC 109

Qy      123 EISITDDTFTGKTIINTVDVPIRSRPQVYLVASTTVLELSEAFITLNCSHENGKPS--YTWL 181
Db      110 MVSEEGNSYGEVKVLIVLVPSPKPTWIPSSAT--IGNRAVLTCSEQDQSPRPSEYTW 167

Qy      182 KDGKPL-----LNDSRMLSPDQKVLITITVLMEDDDLYSCHWVEN 221
Db      168 KDGIVMPTNPKSTRAFNSNSYVLNPTTGELVDFPLSADTGEYSCEARN 216

Search completed: July 26, 2005, 16:15:53
Job time : 18.7207 secs

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Db 334 EPGPVSVPAVPGRSPGLPIRSARYPRSPARSPATGRTHSSPPAPSPGRSRASR 393
Qy 361 TLRAGVHIIRQDEAGPVEISA 383
Db 394 TLRAGVHIIRQDEAGPVEISA 416

RESULT 2
Q67IP8 PRELIMINARY; PRT; 416 AA.
AC Q67IP8;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DE Hypothetical protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Liver;
RA Shen S., Moh M.C.;
RT "A gene related to human hepatocellular carcinoma.";
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY047587; AAQ30308.1; -.
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_c2.
DR Pfam; PF00047; ig; 1.
DR SMART; SM00409; IG; 2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 1.
KW Hypothetical protein.
SQ SEQUENCE 416 AA; 46055 MW; 7B8882298BEB4ABF CRC64;

Query Match 99.8%; Score 1959; DB 2; Length 416;
Best Local Similarity 99.7%; Pred. No. 3.3e-106;
Matches 382; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTGKSAALLSVQYSTSSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKSAALLSVQYSTSSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLFFENGSLLLSDQLADSGTYEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
Db 94 DYDRIRLFFENGSLLLSDQLADSGTYEVEISITDDTFTGKTNLTVDVPISRPQVLVA 153
Qy 121 STTVLELSEAFNLCSHENGKPSYTWLKDGPLLNDSEMLLSPDQKVLITRVLMEDDD 180
Db 154 STTVLELSEAFNLCSHENGKPSYTWLKDGPLLNDSEMLLSPDQKVLITRVLMEDDD 213
Qy 181 LYSQWENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLTVCAWKPSKRRKQKL 240
Db 214 LYSQWENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLTVCAWKPSKRRKQKL 273
Qy 241 EKQNSLEWMDQNDRLKPEADTLPRSGEQRKNPMALYILKDKOSPTEENPAPEPSAT 300
Db 274 EKQNSLEWMDQNDRLKPEADTLPRSGEQRKNPMALYILKDKOSPTEENPAPEPSAT 333
Qy 301 EPGPGVSVSPAVPGRSPLPIRSARYPRSPARSPATGRTHSSPPAPSPGRSRASR 360
Db 334 EPGPGVSVSPAVPGRSPLPIRSARYPRSPARSPATGRTHSSPPAPSPGRSRASR 393
Qy 361 TLRAGVHIIRQDEAGPVEISA 383
Db 394 TLRAGVHIIRQDEAGPVEISA 416

RESULT 3
Q64OR3 PRELIMINARY; PRT; 413 AA.
ID Q64OR3
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AC Q64OR3;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DE 2900042E01RIK protein (Fragment).
GN Name=2900042E01RIK;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6; TISSUE=Brain;
RX PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Collins F.S., Wagner L.H., Shenmen C.M., Schuler G.D.,
RA Klausner R.D., Collins F.S., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hult J., Hult J.,
RA Hopkins R.F., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ustin T.B., Toehiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Villalobos D.K., Muzny D.C., Sodergren E.J., Lu X., Gibbs R.A.,
RA Rahay J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Touchman J.W., Green E.D., Dickson M.C.,
RA Blakesley R.W., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalek U., Smailus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6; TISSUE=Brain;
RA Director MGC Project;
RL Submitted (SEP-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC082537; AAH82537.1; -.
FT NON TER 1
SQ SEQUENCE 413 AA; 45665 MW; B6EFCAD6D2CA3C1 CRC64;

Query Match 94.3%; Score 1850; DB 2; Length 413;
Best Local Similarity 94.5%; Pred. No. 6.4e-100;
Matches 364; Conservative 9; Mismatches 10; Indels 2; Gaps 1;

Qy 1 VNITSPVRLIHGTGKSAALLSVQYSTSSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 60
Db 29 VNITSPVRLIHGTGKSAALLSVQYSTSSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 88
Qy 61 DYDRIRLFFENGSLLLSDQLADSGTYEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
Db 89 DYDRIRLFFENGSLLLSDQLADSGTYEVEISITDDTFTGKTNLTVDVPISRPQVLVA 148
Qy 121 STTVLELSEAFNLCSHENGKPSYTWLKDGPLLNDSEMLLSPDQKVLITRVLMEDDD 180
Db 149 STTVLELSEAFNLCSHENGKPSYTWLKDGPLLNDSEMLLSPDQKVLITRVLMEDDD 208
Qy 181 LYSQWENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLTVCAWKPSK--RKQK 238
Db 209 LYSQWENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLTVCAWKPSKSKRKR 268
Qy 239 KLEKQNSLEWMDQNDRLKPEADTLPRSGEQRKNPMALYILKDKOSPTEENPAPEPS 298
Db 269 KLEKQNSLEWMDQNDRLKPEADTLPRSGEQRKNPMALYILKDKOSPTEENPAPEPS 328
Qy 299 ATEPGPGVSVSPAVPGRSPLPIRSARYPRSPARSPATGRTHSSPPAPSPGRSRAS 358
Db 329 TTEPGPGVSVSPAVPGRSPLPIRSARYPRSPARSPATGRTHSSPPAPSPGRSRAS 388
Qy 359 SRTLRTAGVHIIRQDEAGPVEISA 383
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Db 389 SRSRLTAGVIRREQDESGQVEISA 413
RESULT 4
Q6ZWL4 PRELIMINARY; PRT; 367 AA.
AC Q6ZWL4;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Hypothetical protein FLJ16002.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Bloembergen H., Boecher M., Brandt P., Mewes H.W., Weil B., Wiemann S.;
RL Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AL834419; CAD39081.1; -.
KW Hypothetical protein.
SQ SEQUENCE 165 AA; 18161 MW; 5052FA978C437486 CRC64;
Query Match 43.6%; Score 854.5; DB 2; Length 165;
Best Local Similarity 99.4%; Pred. No. 1.9e-42;
Matches 165; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
Qy '218 FLVTLVTVACWKPKKQKLEKQNSLEYMDNDRLKPEADTLPRSGEQERKNPMAL 277
Db 1 FLVTLVTVACWKPKKQKLEKQNSLEYMDNDRLKPEADTLPRSGEQERKNPMAL 59
Qy 278 YILKDKDSPETENPAPEPSRATPGPGYVSVPAGPSGLPIRSARYPRSPARSPA 337
Db 60 YILKDKDSPETENPAPEPSRATPGPGYVSVPAGPSGLPIRSARYPRSPARSPA 119
Qy 338 TGRTHSSPPRAPSPPGSRASRTLRAGVHIIRQDEAGPVEISA 383
Db 120 TGRTHSSPPRAPSPPGSRASRTLRAGVHIIRQDEAGPVEISA 165
RESULT 6
Q6UXIO PRELIMINARY; PRT; 450 AA.
AC Q6UXIO;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE WLKY305.
GN ORFNames=UNQ305;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA Clark H.F., Gurney A.I., Abaya E., Baker K., Baldwin D., Brush J.,
RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
RA Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
RA Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
RA Vandlen R., Watanabe C., Wiedand D., Woods K., Xie M.H., Yansura D.,
RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
RA Godowski P.
RT "The secreted protein discovery initiative (SPDI), a large-scale
RT effort to identify novel human secreted and transmembrane proteins: a
RT bioinformatics assessment."
RL Genome Res. 13:2265-2270(2003).
DR EMBL; AV358345; AA088711.1; -.
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_c2.
DR Pfam; PF00047; IG; 1.
DR SMART; SM00409; IG; 3.
Db 389 SRSRLTAGVIRREQDESGQVEISA 413
RESULT 4
Q6ZWL4 PRELIMINARY; PRT; 367 AA.
AC Q6ZWL4;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Hypothetical protein FLJ16002.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Matsumoto K., Hirano M., Sano S., Nomura R., Yoshikawa Y.,
RA Matsumura Y., Moriya S., Chiba E., Momiyama H., Onogawa S.,
RA Kaeriyama S., Satoh N., Matsunawa H., Takahashi E., Kataoka R.,
RA Kuga N., Kuroda A., Satoh I., Kanata K., Takami S., Terashima Y.,
RA Watanabe M., Sugiyama T., Irie R., Otsuki T., Sato H., Ota T.,
RA Wakamatsu A., Ishii S., Yamamoto J., Isono Y., Kawai-Hio Y., Saito K.,
RA Nishikawa T., Kimura K., Yamashita H., Matsuo K., Nakamura Y.,
RA Sekine M., Kikuchi H., Kanda K., Wagatsuma M., Murakawa K.,
RA Kanehori K., Takahashi-Fujii A., Oshima A., Sugiyama A., Kawakami B.,
RA Suzuki Y., Sugano S., Nagahari K., Masuno Y., Nagai K., Isogai T.;
RL Submitted (JUL-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK122595; BAC85486.1; -.
GO; GO:0004872; F:receptor activity; IEA.
DR DR
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_c2.
DR Pfam; PF00047; IG; 1.
DR SMART; SM00409; IG; 2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
KW Receptor.
SQ SEQUENCE 367 AA; 40456 MW; 35956FA245A408F0 CRC64;
Query Match 67.2%; Score 1318.5; DB 2; Length 367;
Best Local Similarity 83.2%; Pred. No. 4.9e-69;
Matches 272; Conservative 12; Mismatches 26; Indels 17; Gaps 4;
Qy 1 VNITSPVRLIHGTGKSGALLSVQISSTSSDRPVVQWQKRDKPVTVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKSGALLSVQISSTSSDRPVVQWQKRDKPVTVVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLRFENGSLLSLDQLADSGTVEVEISITDDTFTGKTLNLTVDVPIRPOVLVA 120
Db 94 DSDRIRLRFENGSLLSLDQLADSGTVEVEISITDDTFTGKTLNLTVDVPIRPOVLVA 153
Qy 121 STTVLELSEAFTLNCSHENGTKPSYTWLKDQKPLNDSRMLSPDQKVLITRIVLMEDDDD 180
Db 154 STTVLELSEAFTLNCSHENGTKPSYTWLKDQKPLNDSRMLSPDQKVLITRIVLMEDDDD 213
Qy 181 LYSQWENPISQGRSLPVKITYRRSSLIYILSTGGIFLLVTVACWKPKKQKQKL 240
Db 214 LYSQWENPISQGRSLPVKITYRRSSLIYILSTGGIFLLVTVACWKPKKQKQKL 273
Qy 241 EKQNSLEYMDNDRLKPEADTLPRSGEQERKNPMALYI-----LKDKDSPTEE 290
Db 274 EKQNSLEYMDNDRLKPEGE-LPAT-----QSPITSRVSGWKEAGLDKENSAGT 327
Qy 291 NPAPERS-ATEPPGPGYVSVPAGPGR 316
Db 328 LPSDLGASKGKEPPASLASHSLPR 354
RESULT 5
Q8ND35
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DR SMART; SM00408; IGc2; 1.
DR PROSITE; PS0835; IG LIKE; 2.
SQ SEQUENCE 450 AA; 50114 MW; A22FF822CC3CB226 CRC64;

Query Match 13.7%; Score 268; DB 2; Length 450;
Best Local Similarity 31.9%; Pred. No. 9.3e-08;
Matches 67; Conservative 43; Mismatches 90; Indels 10; Gaps 7;

Qy 1 VNITSPVRLHGTGVKSAALLSVQYS--STSDRPVVKWQLKR--DKPVTVVQSIGTGVIG 56
Db 20 LKVTVPSTHGVGRGQALYLPVHYGFHTPASDIQII-WLPERHTMPKYLGLSVNKSVP 78
Qy 57 TLRPDYDRIRLP-ENGLSLLSLDQLADEGYEVEISIT-DDTFTGKTNILNLTVDVPIR 114
Db 79 DL--EYQKFTMPNPASLLINLPQFPDEGNYIVKVINQGNLTLSAQKQVTVDDPVTK 136
Qy 115 PQVLV-ASTVTLELSEAFTHCSHENGTPKPSYTWLKDGPILNDSRMLLSPDQKVLITR 173
Db 137 PVQIHPPSGAVEYVGNMNTLTCHVEGGTRLAYQMLKNGRPVHTSSTYSFSPQNTLIAP 196
Qy 174 VLMEDDDLYSWMENPISQGRSLPVKITVY 203
Db 197 VTKEIDIGNYSCLVRNPVSEMSDIIMPIY 226

RESULT 7
Q6S259 PRELIMINARY; PRT; 350 AA.
AC Q6S259
DT 05-JUL-2004 (TReMBLrel. 27, Created)
DT 05-JUL-2004 (TReMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TReMBLrel. 27, Last annotation update)
DE Cluster of differentiation 2.
GN Name=CD2;
OS Cercopithecus torquatus atys (Red-crowned mangabey) (sooty mangabey).
OC Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
OC Cercopithecinae; Cercopithecus.
OX NCBI_TaxID=9531;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=15302161;
RA Daneschroder M.M., Kozhich A.A., Woods R.M., Cheng L., Mullikin B.A.,
RA Wilson S.D., Ulbrandt N.D., Bachy C.M., Wu H., Suzich J.A.,
RA Kiener P.A., Dall'Aqua W.F., White W.I.;
RA "Analysis of human and primate CD2 molecules by protein sequence and
RT epitope mapping with anti-human CD2 antibodies."
RL Mol. Immunol. 41:985-1000(2004).
DR EMBL; AY445038; AAR15885.1; -.
DR HSP; P08921; I464
DR GO; GO:0016021; C:integral to membrane; IEA.
DR GO; GO:0007155; P:cell adhesion; IEA.
DR InterPro; IPR008424; CD2.
DR Pfam; PF05790; C2-set; 1.
SQ SEQUENCE 350 AA; 39493 MW; 621C74BC81D8C95D CRC64;

Query Match 11.4%; Score 224; DB 2; Length 350;
Best Local Similarity 23.5%; Pred. No. 2.5e-05;
Matches 84; Conservative 61; Mismatches 146; Indels 66; Gaps 13;

Qy 12 GTVGSALLSVQYSSTSDRPVVKWQLKEDKPVTVVQSIGTGVIGTLRP---DYDRIR 67
Db 35 GALGQDIDLTIPSFQMSDDIDIRWEKTSK-----KKIAQFRKEKTFEKKTYK 84
Qy 68 LPENGSLLSLDQLADEGYEVEISITDDTFTGKTNILNLTVDVPISRPQVLVASTVLEL 127
Db 85 LFKNGTLKIKLKIHDQDSYKVIYDTNGKNVLEKTFDLKIQERYSKPKI---SWTCINT 141
Qy 128 SEAFTHCSHENGTPKPSYTWLKDGPILNDSRMLLSPDQKVLITRVLMEDDDLVSC 184
Db 142 ----TLICEVMNGTDPNLNYQDGKH-----LKLQRVITHKWTNLSAK----FKC 185

Qy 185 MVENPISQGRSLPVKITVYRRSSLYIILS-TGGIFLLVTLVTVCAWKPCKRKKLEKQ 243
Db 186 TAGNKVSKESRVSCTEKGDLDIYLIIGICGGSLLVFVTLVFTVTKRKQRS----- 241
Qy 244 NSLEYWDQNDRLKPEADTLPRSGEGRKNPMALYILKDKDSEPTENPAPERPSATE-- 301
Db 242 -----RRNDEELEIRAH---RAATEERGRKPHQIPASTPQNPAASQHPPPPHGRSOAP 292
Qy 302 ---PGPGYSVS-----PAVPG---RSPGLPIRSARRYPSPARSPARGTHSS 344
Db 293 SHRLPPGHRVQHQPQKPPAPSGTQVHQKGPPLPRVQPPQQAENSLSPPSS 349

RESULT 8
CD2_HUMAN
ID--CD2_HUMAN STANDARD; PRT; 351 AA.
AC P06729; Q96TE5;
DT 01-JAN-1988 (Rel. 06, Created)
DT 01-NOV-1988 (Rel. 09, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE T-cell surface antigen CD2 precursor (T-cell surface antigen T11/Leu-
DE S) (LFA-2) (LFA-3 receptor) (Erythrocyte receptor) (Rosette receptor).
GN Name=CD2;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A., AND VARIANT HIS-266.
RX MEDLINE=88144486; PubMed=2894031;
RA Diamond D.J., Clayton L.K., Sayre P.H., Reinherz E.L.;
RA "Exon-intron organization and sequence comparison of human and murine
RT T11 (CD2) genes";
RL Proc. Natl. Acad. Sci. U.S.A. 85:1615-1619(1988).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=87204137; PubMed=2437578;
RA Seed B., Aruffo A.;
RA "Molecular cloning of the CD2 antigen, the T-cell erythrocyte
RT receptor by a rapid immunoselection procedure.";
RL Proc. Natl. Acad. Sci. U.S.A. 84:3365-3369(1987).
RN [3]
RP SEQUENCE FROM N.A., AND VARIANT HIS-266.
RX MEDLINE=87041523; PubMed=3490670;
RA Sewell W.A., Brown M.H., Dunne J., Owen M.J., Crumpton M.J.;
RA "Molecular cloning of the human T-lymphocyte surface CD2 (T11
RT antigen.";
RL Proc. Natl. Acad. Sci. U.S.A. 83:8718-8722(1986).
RN [4]
RP REVISIONS.
RA Sewell W.A., Brown M.H., Dunne J., Owen M.J., Crumpton M.J.;
RL Proc. Natl. Acad. Sci. U.S.A. 84:7256-7256(1987).
RN [5]
RP SEQUENCE FROM N.A.
RX MEDLINE=87204243; PubMed=2883656;
RA Sayre P.H., Chang H.-C., Hussey R.E., Brown N.R., Richardson N.E.,
RA Spagnoli G., Clayton L.K., Reinherz E.L.;
RA "Molecular cloning and expression of T11 cDNAs reveal a receptor-like
RT structure on human T lymphocytes.";
RL Proc. Natl. Acad. Sci. U.S.A. 84:2941-2945(1987).
RN [6]
RP SEQUENCE FROM N.A., AND VARIANT HIS-266.
RX MEDLINE=89005055; PubMed=2901953;
RA Lang G., Wotton D., Owen M.J., Sewell W.A., Brown M.H., Mason D.Y.,
RA Crumpton M.J., Kioussis D.;
RT "The structure of the human CD2 gene and its expression in transgenic
RT mice.";
RL EMBO J. 7:1675-1682(1988).
RN [7]
RP SEQUENCE FROM N.A., AND VARIANT HIS-266.
RA Hall R.;
RL Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
RN [8]
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QY 12 GTVGSALLSVQSYSTSSDRPVVWQLKRDKPVTVVQSIGTEVIGTLRPD-----YRDRI 66
Db 35 GALTQDINLIPSFQMSDDDDIKWETSCK-----KKIAQFRKEKETEFEKDY 84
QY 67 RLFEENGSLLSDLQADDEGTVEVEISITDDTFTGKNTINLTVDPISRPQVLVASTTVLE 126
Db 85 KLFKNGTLKIKHLKHDDQDSYKVSIDYTKGNVLEKIFDLKIQERSVKPKI---SWTCIN 141
QY 127 LSEAFNLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDDLYSCMW 186
Db 142 T-----TLTCEVMNGTDPDLNLYQDGKHLKLSQRVITHKWTTSLSAK-----FKCTA 188
QY 187 ENPISQGRSLPVKITVYRRSSLYIILS--TGGIFLLVTLVTVCAWKPSPKQKKLEKQNS 245
Db 189 GNVKSVKESRMETVSCPEKGLDIYLIIGICGGSLLMVFVALLVFIYITKRRKQRS----- 242
QY 246 LEYMDQNDRLKPEADTLPRSGEQRKNPMALYILKDKDSPETENPAPRPSATE----- 301
Db 243 -----RRNDEELETRAH---RVATEERGRKPHQIPASTPQNPAASQHPPPPGHRSQAPSH 295
QY 302 -PGPPGYSVS-----PAVPG-----RSPGLPIRSARRYPRSP 332
Db 296 RPLPPGHRVQHQPQKRPAPSGTQVHQKGPPLPRPRVQPKPP 338

RESULT 9
Q6SZ58 PRELIMINARY; PRT; 345 AA.
AC Q6SZ58;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DE Cluster of differentiation 2 (Fragment).
GN Name=CD2;
OS Macaca assamensis (Assam's macaque) (Assam's monkey).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopitheciidae;
OC Cercopitheciinae; Macaca.
OX NCBI_TaxID=9551;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=15302161;
RA Damschroder M.M., Kozhich A.A., Woods R.M., Cheng L., Mullikin B.A.,
RA Wilson S.D., Ulbrandt N.D., Bachy C.M., Wu H., Suzich J.A.,
RA Kiener P.A., Dall'Acqua W.F., White W.I.;
RT "Analysis of human and primate CD2 molecules by protein sequence and
RT epitope mapping with anti-human CD2 antibodies."
RL Mol. Immunol. 41:985-1000(2004).
DR EMBL; AY445039; AAR15886.1; --
DR HSP; P08921; IAG4;
DR GO; GO:0016021; C:integral to membrane; IEA.
DR GO; GO:0007155; P:cell adhesion; IEA.
DR InterPro; IPR008424; CD2.
DR InterPro; IPR007110; Ig-like.
DR Pfam; PF05790; C2-set; 1.
FT NON_TER 345 345
SQ SEQUENCE 345 AA; 38952 MW; 063DF110344542A7 CRC64;

Query Match 11.1%; Score 217.5; DB 2; Length 345;
Best Local Similarity 23.3%; Pred. No. 5.9e-05;
Matches 80; Conservative 54; Mismatches 148; Indels 61; Gaps 11;

QY 12 GTVGSALLSVQSYSTSSDRPVVWQLKRDKPVTVVQSIGTEVIGTLRPD-----YRDRI 66
Db 35 GALTQDINLIPSFQMSDDDDIKWETSCK-----KKIAQFRKEKETEFEKDAY 84
QY 67 RLFEENGSLLSDLQADDEGTVEVEISITDDTFTGKNTINLTVDPISRPQVLVASTTVLE 126
Db 85 KLFKNGTLKIKHLKHDDQDSYKVSIDYTKGNVLEKIFDLKIQERSVEPKI---SWTCIN 141
QY 127 LSEAFNLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDDLYSCMW 186

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Db 142 T-----TLTCEVMNGTDPDLNLYQDGKHLKLSQRVITHKWTTSLSAK-----FKCTA 188
QY 187 ENPISQGRSLPVKITVYRRSSLYIILS--TGGIFLLVTLVTVCAWKPSPKQKKLEKQNS 245
Db 189 GNVKSVKESRMETVSCPEKGLDIYLIIGICGGSLLMVFVALLVFIYITKRRKQRS----- 242
QY 246 LEYMDQNDRLKPEADTLPRSGEQRKNPMALYILKDKDSPETENPAPRPSATE----- 301
Db 243 -----QRNDEELETRAH---RVATEERGRKPHQIPASTPQNPAASQHPPPPGHRSQAPSH 295
QY 302 -PGPPGYSVS-----PAVPG-----RSPGLPIRSARRYPRSP 332
Db 296 RPLPPGHRVQHQPQKRPAPSGTQVHQKGPPLPRPRVQPKPP 338

RESULT 10
Q6SZ62 PRELIMINARY; PRT; 344 AA.
AC Q6SZ62;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DE Cluster of differentiation 2 (Fragment).
GN Name=CD2;
OS Papio anubis (Olive baboon).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopitheciidae;
OC Cercopitheciinae; Papio.
OX NCBI_TaxID=9551;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=15302161;
RA Damschroder M.M., Kozhich A.A., Woods R.M., Cheng L., Mullikin B.A.,
RA Wilson S.D., Ulbrandt N.D., Bachy C.M., Wu H., Suzich J.A.,
RA Kiener P.A., Dall'Acqua W.F., White W.I.;
RT "Analysis of human and primate CD2 molecules by protein sequence and
RT epitope mapping with anti-human CD2 antibodies."
RL Mol. Immunol. 41:985-1000(2004).
DR EMBL; AY445035; AAR15882.1; --
DR HSP; P08921; IAG4;
DR GO; GO:0016021; C:integral to membrane; IEA.
DR GO; GO:0007155; P:cell adhesion; IEA.
DR InterPro; IPR008424; CD2.
DR InterPro; IPR007110; Ig-like.
DR Pfam; PF05790; C2-set; 1.
FT NON_TER 344 344
SQ SEQUENCE 344 AA; 38916 MW; 063CF2A38695E5BA6 CRC64;

Query Match 11.0%; Score 215.5; DB 2; Length 344;
Best Local Similarity 23.3%; Pred. No. 7.7e-05;
Matches 80; Conservative 54; Mismatches 148; Indels 61; Gaps 11;

QY 12 GTVGSALLSVQSYSTSSDRPVVWQLKRDKPVTVVQSIGTEVIGTLRPD-----DYDRI 66
Db 35 GALTQDINLIPSFQMSDDDDIKWETSCK-----KKIAQFRKEKETEFEKDAY 84
QY 67 RLFEENGSLLSDLQADDEGTVEVEISITDDTFTGKNTINLTVDPISRPQVLVASTTVLE 126
Db 85 KLFKNGTLKIKHLKHDDQDSYKVSIDYTKGNVLEKIFDLKIQERSVEPKI---SWTCIN 141
QY 127 LSEAFNLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDDLYSCMW 186
Db 142 T-----TLTCEVMNGTDPDLNLYQDGKHLKLSQRVITHKWTTSLSAK-----FKCTA 188
QY 187 ENPISQGRSLPVKITVYRRSSLYIILS--TGGIFLLVTLVTVCAWKPSPKQKKLEKQNS 245
Db 189 GNVKSVKESRMETVSCPEKGLDIYLIIGICGGSLLMVFVALLVFIYITKRRKQRS----- 242
QY 246 LEYMDQNDRLKPEADTLPRSGEQRKNPMALYILKDKDSPETENPAPRPSATE----- 301
Db 243 -----RRNDEELETRAH---RVATEERGRKPHQIPASTPQNPAASQHPPPPGHRSQAPSH 295
QY 302 -PGPPGYSVS-----PAVPG-----RSPGLPIRSARRYPRSP 332

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Name=CD2;
OS Macaca nemestrina (Pig-tailed macaque).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopitheciidae;
OC Cercopitheciinae; Macaca.
OX NCBI_TaxID=9545;
RN [1]
SEQUENCE FROM N.A.
RP PubMed=15302161;
RX Damschroder M.M., Kozhich A.A., Woods R.M., Cheng L., Mullikin B.A.,
RA Wilson S.D., Ulbrandt N.D., Bachy C.M., Wu H., Suzich J.A.,
RA Kiener P.A., Dall'Acqua W.F., White W.I.;
RA "Analysis of human and primate CD2 molecules by protein sequence and
RT epitope mapping with anti-human CD2 antibodies.";
RL Mol. Immunol. 41:985-1000(2004).
RR EMBL; AY445041; AAR15888.1; -;
DR HSP; P08921; IA64.
DR GO; GO:0016021; C:integral to membrane; IEA.
DR GO; GO:007155; P:cell adhesion; IEA.
DR InterPro; IPR008424; CD2.
DR DR InterPro; IPR007110; Ig-like.
DR Pfam; PF05790; C2-set; 1.
FT NON_TER 1 334
FT NON_TER 334 334
SQ SEQUENCE 334 AA; EB5F8378B099D80F CRC64;

Query Match 10.8%; Score 212.5; DB 2; Length 334;
Best Local Similarity 24.0%; Pred. No. 0.000114;
Matches 83; Conservative 56; Mismatches 140; Indels 67; Gaps 14

QY	12	GTVGKSGALLSVQVSYSTSDRPVVKWQLRKPKVTVPVQSIGTEVIGTLRP-----DYRDRI 66
DB	25	GALGQQDIDLIPFSQMSDDIDDIKWEKTSDK-----KKIAQFRKEKETFEEDKAY 74
QY	67	RLEFNGSLLSLDQLADEGYVEVEISITDDTFTEKTINLTVDVIPSRPQVLVASTTVLE 126
DB	75	KLFNGLTKTHKIHKIHQDSYKYVIYDTKGKNVLEKTFDLKIQBRVSEPKI---SWTCIN 131
QY	127	LSEAFNLNCSHENGTKPSYTWLKDGPLLNDSRMLLSPDQKVLT---ITRVLMEDDDLLYS 183
DB	132	T-----TLTCEVMNGTPDELNYDGK-----HVKLS--QEVITHKWTLSAK----FK 175
QY	184	CMVENPISQGRSLPVKITVTVRRSSLYILS-TGGIFLLVTLVTVCAWKPKRKQKLEK 242
DB	176	CTAGNKVSKESMETVSCPEKGLDIYLIIGICGGSLMWVALLVFYITRKKQRS--- 232
QY	243	QNSLEYWDQNDDRKLKEADTLPRSGEQRKNPMALYLTKDKDPETENPAPEPSATE- 301
DB	233	-----RRNDELEIRAH---RVATEERKGKHQIPASTPNQPAASQHPPPPPHGRSQA 282
QY	302	----PGPPGVSVS-----PAVFG----RSPGLPIRSARRYPSP 332
DB	283	PSHRPLPPGHRVHQHPQKRPPAPSGTVHQKGPPLPRPVQPAPP 328

RESULT 13
Q6SZ57 PRELIMINARY; PRT; 341 AA.

ID	Q6SZ57	PRELIMINARY; PRT; 341 AA.
AC	Q6SZ57	
DT	05-JUL-2004	(TrEMBLrel. 27, Created)
DT	05-JUL-2004	(TrEMBLrel. 27, Last sequence update)
DT	05-JUL-2004	(TrEMBLrel. 27, Last annotation update)
DE	Cluster of differentiation 2 (Fragment).	
GN	Name=CD2;	
OS	Macaca arctoides (Stump-tailed macaque).	
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
OC	Mammalia; Eutheria; Primates; Catarrhini; Cercopitheciidae;	
OC	Cercopitheciinae; Macaca.	
OX	NCBI_TaxID=9540;	
RN	[1]	
RP	SEQUENCE FROM N.A.	
RX	PubMed=15302161;	
RA	Damschroder M.M., Kozhich A.A., Woods R.M., Cheng L., Mullikin B.A.,	

RA Wilson S.D., Ulbrandt N.D., Bachy C.M., Wu H., Suzich J.A.,
 RA Kiener P.A., Dall'Acqua W.F., White W.I.;
 RT "Analysis of human and primate CD2 molecules by protein sequence and
 RT epitope mapping with anti-human CD2 antibodies.";
 RL Mol. Immunol. 41:985-1000(2004).
 DR EMBL; AY45040; AAR15887.1; -.
 DR HSSP; P08921; 1A64.
 DR GO; GO:0016021; C:integral to membrane; IEA.
 DR GO; GO:0007155; P:cell adhesion; IEA.
 DR InterPro; IPR008424; CD2.
 DR InterPro; IPR007110; Ig-like.
 DR Pfam; PF05790; C2-set; 1.
 FT NON TER 341
 SQ SEQUENCE 341 AA; 38565 MW; DFAC90E8247194A6 CRC64;
 Query Match 10.8%; Score 212.5; DB 2; Length 341;
 Best Local Similarity 24.0%; Pred. No. 0.00011;
 Matches 83; Conservative 56; Mismatches 140; Indels 67; Gaps 14;
 QY 12 GTVGKSAALLSVQSSSTSDRPPVVKWQKRDKDPVTVVQSIGTEVIGTLRP-----DYRDRI 66
 DB 35 GALTQDIDLDPFQMSDDDDIKWEKTSK-----KKIAQFRKEKEFEEDKDAY 84
 QY 67 RLFENGSLLSLDLQADGTYVEISITDFTTGEKTNLTVDPIRPPQVLVASTTGLE 126
 DB 85 KLFKNGTLKIKHLKHQDSYKYSYDTGKGNVLEKTFDLKIQERVSEPKI---SWTCIN 141
 QY 127 LSEAFNLCSHENGTKPSYTWLKGKPLNDSRMLLSPDQKVL---ITRVLMBDDLLYS 183
 DB 142 T-----TLTCEVMNGTDPENLYQDGK-----HVKLS--QRVITHKWTLSAK-----FK 185
 QY 184 CMVENPISQGRSLPVKITYVRRSSLYIILS-TGGIFLLVTLVTVCAWKPSKPKKQKLEK 242
 DB 186 CTAGNKVSKESMETVSCPEGLDIYLLIGCGGSLLMVFLVFIYTKRKQRS--- 242
 QY 243 QNSLEYMDQNDRLKPEADTLPRSGEQRKNPMALYILKDKSPETENPAPEPRSPATE- 301
 DB 243 -----RRNDELEIRAH-----RVATEERGKPHQIPASTPQNPAASQHPPPPPHRSQA 292
 QY 302 -----PGPPGYSVS-----PAVPG-----RSPGLPIRSARYPRSP 332
 DB 293 PSHRPLPEGHRVHQPKRPPAPSGTQVHQOGKPLPRPRVQPKPP 338
 RESULT 14
 Q61354 PRELIMINARY; PRT; 341 AA.
 ID Q61354
 AC Q61354;
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Biliary glycoprotein precursor.
 GN Name=Ceacam1; Synonyms=Bgph;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=CD1; TISSUE=Colon;
 RX MEDLINE=9327328; PubMed=8500759; DOI=10.1016/0378-1119(93)90716-G;
 RA McCuaig K., Rosenberg M., Turbide C., Beauchemin N., Nedellec P.;
 RT "Expression of the Bgp gene and characterization of mouse colon
 RT biliary glycoprotein isoforms.";
 RL Gene 127:173-183(1993).
 DR EMBL; X67283; CAA47700.1; -.
 DR PIR; JC1512; JC1512.
 DR HSSP; Q61353; 1L6Z.
 DR MGD; MGI:1347245; Ceacam1.
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003598; Ig_c2.
 DR Pfam; PF00047; Ig_1.
 DR SMART; SM00408; IgC2; 1.

DR PROSITE; PS50835; IG_LIKE; 1.
 KW Signal.
 FT SIGNAL 1 34 Potential
 SQ SEQUENCE 341 AA; 36901 MW; B5278D660996341 CRC64;
 Query Match 10.8%; Score 211; DB 2; Length 341;
 Best Local Similarity 26.1%; Pred. No. 0.00014;
 Matches 73; Conservative 47; Mismatches 126; Indels 34; Gaps 9;
 QY 40 RDXPVTTVQSIGTEVIGTLR-----PYRDRIRLFPENGSLLSLDLQADGTYVEISITD 95
 DB 69 KGNFVSTNAEIVHFVTGNTKTTTTPAHSGRETVYSGSLLIQRTVTKDTGVYIE--MTD 126
 QY 96 DTF-TGEKTNLTVDPIRPPQVLVASTTLESEAFNLCSHENGTKPSYTWLKGDKPL 154
 DB 127 ENFRTEATVQFHVQPVTPQSLQVNTVTKEL-DSVTITCL-SNDIGANIQLWLFNSQL 184
 QY 155 LNDSRMLSPDQKVLITRVLMBDDLLYSQWENPISQGRSLPVKITVVRSSLYII--- 211
 DB 185 QLTERWTLSONNSILRIDPIKREDAGEYQCEISNPVSVKRSNISKLDI-----IPDPT 237
 QY 212 ---LSTG-----GIFLLVTLVTVCAWKPSKPKKQKLEKQNSLEYMDQNDRLKPEAD 261
 DB 238 QGGLSDGAIAGIVGVAGVALIAGLAYFLYSRKSGGSDQDRLTEHKPSTSNHNLAPSD 297
 QY 262 TLPRSGEQRKNPMALYILKDKSPETENPAPEPRSPATE 301
 DB 298 NSP-----NKVDVATVTLNFSQQPNRTPSAPSPRATE 332
 RESULT 15
 Q6SZ61 PRELIMINARY; PRT; 351 AA.
 ID Q6SZ61
 AC Q6SZ61;
 DT 05-JUL-2004 (TrEMBLrel. 27, Created)
 DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
 DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
 DE Cluster of differentiation 2.
 GN Name=CD2;
 OS Macaca fascicularis (Crab eating macaque) (Cynomolgus monkey).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Cercopitheidae;
 OC Cercopitheidae; Macaca.
 OX NCBI_TaxID=9541;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX PubMed=15302161;
 RA Damschroder M.M., Kozhich A.A., Woods R.M., Cheng L., Mullikin B.A.,
 RA Wilson S.D., Ulbrandt N.D., Bachy C.M., Wu H., Suzich J.A.,
 RA Kiener P.A., Dall'Acqua W.F., White W.I.;
 RT "Analysis of human and primate CD2 molecules by protein sequence and
 RT epitope mapping with anti-human CD2 antibodies.";
 RL Mol. Immunol. 41:985-1000(2004).
 DR EMBL; AY45036; AAR15883.1; -.
 DR HSSP; P08921; 1A64.
 DR GO; GO:0016021; C:integral to membrane; IEA.
 DR GO; GO:0007155; P:cell adhesion; IEA.
 DR InterPro; IPR008424; CD2.
 DR InterPro; IPR007110; Ig-like.
 DR Pfam; PF05790; C2-set; 1.
 SQ SEQUENCE 351 AA; 39580 MW; D549EA58D3CD5AE6 CRC64;
 Query Match 10.7%; Score 210.5; DB 2; Length 351;
 Best Local Similarity 23.5%; Pred. No. 0.00015;
 Matches 84; Conservative 59; Mismatches 148; Indels 67; Gaps 14;
 QY 12 GTVGKSAALLSVQSSSTSDRPPVVKWQKRDKDPVTVVQSIGTEVIGTLRP-----DYRDRI 66
 DB 35 GALTQDIDLDPFQMSDDDDIKWEKTSK-----KKIAQFRKEKEFEEDKDAY 84
 QY 67 RLFENGSLLSLDLQADGTYVEISITDFTTGEKTNLTVDPIRPPQVLVASTTGLE 126
 DB 85 KLFKNGTLKIKHLKHQDSYKYSYDTGKGNVLEKTFDLKIQERVSEPKI---SWTCIN 141

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Result No.	Query	Score	Match	Length	DB	ID	Description
1	1201	99.7	416	2	Q8N713	Q8N713	homo sapien
2	1201	99.7	416	2	Q671P8	Q671P8	homo sapien
3	1192	98.9	367	2	Q6ZW14	Q6ZW14	homo sapien
4	1146	95.1	413	2	Q640R3	Q640R3	mus musculus
5	282	23.4	450	2	Q6UX10	Q6UX10	homo sapien
6	202.5	16.8	278	2	Q99232	Q99232	mus musculus
7	202.5	16.8	341	2	Q61354	Q61354	mus musculus
8	193.5	16.1	292	2	Q6UY47	Q6UY47	homo sapien
9	189.5	15.7	235	2	Q75296	Q75296	homo sapien
10	183.5	15.2	272	2	Q8R1N5	Q8R1N5	mus musculus
11	183.5	15.2	340	2	Q61349	Q61349	mus musculus
12	183.5	15.2	538	2	Q8CG94	Q8CG94	mus musculus
13	183.5	15.2	645	2	Q6NZB6	Q6NZB6	mus musculus
14	183.5	15.2	649	2	Q7TMP7	Q7TMP7	mus musculus
15	183.5	15.2	654	1	LY9_MOUSE	LY9_MOUSE	mus musculus
16	182	15.1	471	2	Q9DAV5	Q9DAV5	mus musculus
17	181	15.0	458	2	Q61351	Q61351	mus musculus
18	181	15.0	521	2	Q61352	Q61352	mus musculus
19	178.5	14.8	475	2	Q62664	Q62664	rattus norv
20	177.5	14.7	278	2	Q61350	Q61350	mus musculus
21	177.5	14.7	341	2	Q61353	Q61353	mus musculus
22	174.5	14.5	471	2	Q9D2U0	Q9D2U0	mus musculus
23	173.5	14.4	365	2	Q6VAN5	Q6VAN5	bos taurus
24	173.5	14.4	372	2	Q6VAN6	Q6VAN6	bos taurus
25	173.5	14.4	429	2	Q6VAN7	Q6VAN7	bos taurus
26	173.5	14.4	436	2	Q6VAN8	Q6VAN8	bos taurus
27	173.5	14.4	475	2	Q810J1	Q810J1	mus musculus
28	173.5	14.4	520	2	Q925P2	Q925P2	mus musculus
29	172.5	14.3	475	2	P70161	P70161	mus musculus
30	170.5	14.1	234	2	Q78T27	Q78T27	mus musculus
31	170.5	14.1	300	2	Q9JHY1	Q9JHY1	rattus norv

```

DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Hypothetical protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Liver;
RA Shen S., Moh M.C.;
RL "A gene related to human hepatocellular carcinoma.";
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY047587; AAQ93018.1; -.
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_c2.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00409; IG; 2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG LIKE; 1.
DR Hypothetical protein.
KW SEQUENCE 416 AA; 46055 MW; 7B8882298BEB4ABF CRC64;

Query Match 99.7%; Score 1201; DB 2; Length 416;
Best Local Similarity 99.6%; Pred. No. 1.6e-84;
Matches 239; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKRERGALSRSRALRLAPFVYLLLIQTDPLEGVNTSPVRLIHGTGKSALLSVQYSST 60
DB 1 MERERGALSRSRALRLAPFVYLLLIQTDPLEGVNTSPVRLIHGTGKSALLSVQYSST 60

QY 61 SSDRPVVKWQKDKPVTWVQSIGTEVIGTLRDPYDRIRLRFENGSLLSLDQLADEGTY 120
DB 61 SSDRPVVKWQKDKPVTWVQSIGTEVIGTLRDPYDRIRLRFENGSLLSLDQLADEGTY 120

QY 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVEISEAFTLNCSHENGTKPSYTW 180
DB 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVEISEAFTLNCSHENGTKPSYTW 180

QY 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVEISEAFTLNCSHENGTKPSYTW 180
DB 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVEISEAFTLNCSHENGTKPSYTW 180

QY 181 LKDGKPLNDSRMLLSPDKVLTITRVLMEDDDLVSCWVENPISQGRSLPKITVYRRSS 240
DB 181 LKDGKPLNDSRMLLSPDKVLTITRVLMEDDDLVSCWVENPISQGRSLPKITVYRRSS 240

RESULT 3
Q62WLA PRELIMINARY; PRT; 367 AA.
AC Q62WLA;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DE Hypothetical protein FLJ16002.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Suzuki O., Sasaki N., Kotsuka S., Shoji T., Ichihara T., Shiohata N.,
RA Matsumoto K., Hirano M., Sano S., Nomura R., Yoshikawa Y.,
RA Matsumura Y., Moriya S., Chiba E., Moniyama H., Onogawa S.,
RA Kaeriyama S., Satoh N., Matsunawa H., Takahashi E., Kataoka R.,
RA Kuga N., Kuroda A., Satoh I., Kamata K., Takami S., Terashima Y.,
RA Watanabe M., Sugiyama T., Irie R., Otsuki T., Sato H., Ota T.,
RA Wakamatsu A., Ishii S., Yamamoto J., Isono Y., Kawai-Hio Y., Saito K.,
RA Nishikawa T., Kimura K., Yamashita H., Matsuo K., Nakamura Y.,
RA Sekine M., Kikuchi H., Kanda K., Wagatsuma M., Murakawa K.,
RA Kanehori K., Takahashi-Fuji A., Oshima A., Sugiyama A., Kawakami B.,
RA Suzuki Y., Sugano S., Nagahari K., Masuho Y., Nagai K., Isogai T.;
RL Submitted (JUL-2003) to the EMBL/GenBank/DBJ databases.

Query Match 99.7%; Score 1201; DB 2; Length 416;
Best Local Similarity 99.6%; Pred. No. 1.6e-84;
Matches 239; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKRERGALSRSRALRLAPFVYLLLIQTDPLEGVNTSPVRLIHGTGKSALLSVQYSST 60
DB 1 MERERGALSRSRALRLAPFVYLLLIQTDPLEGVNTSPVRLIHGTGKSALLSVQYSST 60

QY 61 SSDRPVVKWQKDKPVTWVQSIGTEVIGTLRDPYDRIRLRFENGSLLSLDQLADEGTY 120
DB 61 SSDRPVVKWQKDKPVTWVQSIGTEVIGTLRDPYDRIRLRFENGSLLSLDQLADEGTY 120

QY 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVEISEAFTLNCSHENGTKPSYTW 180
DB 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVEISEAFTLNCSHENGTKPSYTW 180

QY 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVEISEAFTLNCSHENGTKPSYTW 180
DB 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVEISEAFTLNCSHENGTKPSYTW 180

QY 181 LKDGKPLNDSRMLLSPDKVLTITRVLMEDDDLVSCWVENPISQGRSLPKITVYRRSS 240
DB 181 LKDGKPLNDSRMLLSPDKVLTITRVLMEDDDLVSCWVENPISQGRSLPKITVYRRSS 240

RESULT 4
Q64OR3 PRELIMINARY; PRT; 413 AA.
AC Q64OR3;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE 290042E01Rik protein (Fragment).
GN Name=2900042E01Rik;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6; TISSUE=Brain;
RX PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner K.H., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smallus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6; TISSUE=Brain;

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RA Director MGC Project;
RL Submitted (SEP-2004) to the EMBL/GenBank/DBJ databases.

DR EMBL; BC082537; AAH82537.1; --
FT NON_TER 1
SQ SEQUENCE 413 AA; 45665 MW; B6EFC2AD6D2CA3C1 CRC64;

Query Match 95.1%; Score 1146; DB 2; Length 413;
Best Local Similarity 97.4%; Pred. No. 2.8e-80;
Matches 229; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 6 GALSASRALRLAPFYVLLIITDPLEGNITSPVRLIHGTGKSGALLSVQVSSSDRP 65
DB 1 GALSASRALRLSPFYVLLIITDPLEGNITSPVRLIHGTGKSGALLSVQVSSSDRP 60
QY 66 VVKWQKDKDPVTVVQSIGTEVIGTLRPDRIPLFENGSLLSDLQADGTYVEIS 125
DB 61 VVKWQKDKDPVTVVQSIGTEVIGTLRPDRIPLFENGSLLSDLQADGTYVEIS 120
QY 126 ITDDTFTGKTLNLTVDPIRSPQVLVASTTVLELSEAFNLCSHENGKPSYTWLKDGG 185
DB 121 ITDDTFTGKTLNLTVDPIRSPQVLVASTTVLELSEAFNLCSHENGKPSYTWLKDGG 180
QY 186 PLLNDSRMLSPDQKVLITRVLMDDDLYSCWENPISQGRSLPVKITVYRRSS 240
DB 181 PLLNDSRMLSPDQKVLITRVLMDDDLYSCWENPISQGRSLPVKITVYRRSS 235

RESULT 5

Q6UX10 PRELIMINARY; PRT; 450 AA.
AC Q6UX10;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DE WLKV305.
GN Homo sapiens (Human).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]

RP SEQUENCE FROM N.A.
RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
RA Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
RA Huang A., Kim H.S., Klinowski L., Jin Y., Johnson S., Lee J.,
RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
RA Sebhagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
RA Vandlen R., Watanabe C., Wieand D., Woods K., Xie M.H., Yansura D.,
RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
RA Godowski P.;
RT "The secreted protein discovery initiative (SPDI), a large-scale
RT effort to identify novel human secreted and transmembrane proteins: a
RT bioinformatics assessment."
RL Genome Res. 13:2265-2270(2003).

DR EMBL; AY358345; AAQ88711.1; --
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig 1.
DR SMART; SM00409; Ig 3.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG LIKE; 2.
SQ SEQUENCE 450 AA; 50114 MW; A22FF822CC3CB226 CRC64;

Query Match 23.4%; Score 282; DB 2; Length 450;
Best Local Similarity 31.7%; Pred. No. 1.7e-13;
Matches 72; Conservative 43; Mismatches 102; Indels 10; Gaps 7;

QY 17 LAPFYVLLIITDPLEGNITSPVRLIHGTGKSGALLSVQVSS--STSDRPVVKQLKR- 73
DB 3 LKVFYVLLIITDPLEGNITSPVRLIHGTGKSGALLSVQVSS--STSDRPVVKQLKR- 61

QY 74 -DKPVTVVQSIGTEVIGTLRPDRIPLFENGSLLSDLQADGTYVEISIT-DDT 130
DB 62 HTMKYLLGSKVNSVPPDL--EYQHKFTMPNPASLLINPLOFPDEGNYIVKVNQNGT 119
QY 131 FTGKTLNLTVDPIRSPQVLV-ASTTVLELSEAFNLCSHENGKPSYTWLKDGGKPLN 189
DB 120 LSASQKIQTVDVPTKPVQIHPPSGAVEYVGNMTLTCHEVGGRLAYQMLKNGRPVHT 179
QY 190 DSRMLSPDQKVLITRVLMDDDLYSCWENPISQGRSLPVKITVY 236
DB 180 SSTYSFSPQNNLTAPVTKEDIGNYSCLVRNPVSEMSDIIMPIIY 226

RESULT 6

Q99232 PRELIMINARY; PRT; 278 AA.
AC Q99232;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Carcinoembryonic antigen family member protein precursor.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CD-1; TISSUE=Colon;
RX MEDLINE=91093141; PubMed=1985902;
RA Turbide C., Rojas M., Stanners C.P., Beauchemin N.;
RT "A mouse carcinoembryonic antigen gene family member is a calcium-
RT dependent cell adhesion molecule."
RL J. Biol. Chem. 266:309-315(1991).
DR EMBL; X53084; CAA37251.1; --
DR PIR; A39037; JCI506.
DR PIR; JCI506; JCI506.
DR HSSP; Q61353; 1L6Z.
DR MGD; MGI:134745; Ceacam1.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG LIKE; 1.
KW SIGNAL 1 34 Potential.
FT CHAIN 35 278 Potential.
SQ SEQUENCE 278 AA; 29943 MW; 1A9CEBF18770258C CRC64;

Query Match 16.8%; Score 202.5; DB 2; Length 278;
Best Local Similarity 32.1%; Pred. No. 1.3e-07;
Matches 54; Conservative 31; Mismatches 74; Indels 9; Gaps 5;

QY 73 RDKPVTVVQSIGTEVIGTLR----PYDRIRLPLFENGSLLSDLQADGTYVEISITD 128
DB 69 KGNPVTNAEIVHPVTGNTKTTTTPAHSGRETIVYNGSLLIQRTVTKDTGVYTTIE--MTD 126
QY 129 DTF-TGKTLNLTVDPIRSPQVLVASTTVLELSEAFNLCSHENGKPSYTWLKDGGKPL 187
DB 127 ENFRTEATVQPHVQHPVTPQLQVNTTIVKEL-DSVTLTCL-SNDIGANIQMLFNSQSL 184
QY 188 LNDLSRMLSPDQKVLITRVLMDDDLYSCWENPISQGRSLPVKITV 235
DB 185 QLTERMTLSQNNILRIPDKREDAGEYQCEISNPVSVKRSNSIKLDI 232

RESULT 7

Q61354 PRELIMINARY; PRT; 341 AA.
AC Q61354;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)

DR [incelF10](#); [1FK003398](#); [19_C2](#).
DR [Pfam](#); [PF00047](#); [iq](#): 1.

```

Query Match          15.2%; Score 183.5; DB 2; Length 340;
Best Local Similarity 25.7%; Pred. No. 4.9e-06;
Matches 59; Conservative 41; Mismatches 91; Indels 39; G
QY 24 LLIQDPLEGVNITSPVRLIHGTGKSALISV-----QYSTSSDRPV

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Db 24 LLASWSPTTAQTVTMAPPLHAABGNVILVVNMKGVSAPFSAFMSHMKGTTSTNAEIVRFV 83
Qy 71 LKRDKPVTVVGOSIGTEVIGTLPDPRDRIRLFPENGSLILSDQLADEGTYEVEISITDDT 130
Db 84 TGTNKTIK-----GPHVSGRETLVNSGLLIQRVTNWKDGVGTIE--MTDQN 128
Qy 131 F-----TGEKTNLTVDVPIRPOVLVASTVTLSEBFTLNCSHENGTPKSPVTLWKDGK 185
Db 129 YRRRVLTGQ-----FHVHKPVTQPSLQVNTTIVKEL-DSVILTCLSKD-RQAHIIWFND 182
Qy 186 PLLNDSRMLSPDQKVLITITVLMEDDDLXSCMVENPISQGRSLPVKITV 235
Db 183 TLLITERKMTTSQAGILKIDPIKREDAGEYQCEISNPVSVKRSNIKLEV 232

RESULT 12
Q8C9E4 PRELIMINARY; PRT; 538 AA.
AC Q8C9E4;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DE Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched
DE library, clone:A630078M16 product:lymphocyte antigen 9, full insert
DE sequence. (Fragment).
GN Name=Ly9;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP STRAIN=C57BL/6J; TISSUE=Thymus;
RX MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA Carninci P., Hayashizaki Y.;
RT "High-efficiency full-length cDNA cloning.";
RL Meth. Enzymol. 303:19-44(1999).
RN [2]
RP STRAIN=C57BL/6J; TISSUE=Thymus;
RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
RA RIKEN FANTOM Consortium;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
RN [3]
RP STRAIN=C57BL/6J; TISSUE=Thymus;
RX MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;
RA Carninci P., Shibata Y., Hayase N., Sugahara Y., Shibata K., Itoh M.,
RA Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;
RT "Normalization and subtraction of cap-trapper-selected cDNAs to
RT prepare full-length cDNA libraries for rapid discovery of new genes.";
RL Genome Res. 10:1617-1630(2000).
RN [5]
RP STRAIN=C57BL/6J; TISSUE=Thymus;
RX MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;
RA Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuami T., Tashiro H., Itoh M.,
RA Suni N., Ishii Y., Nakamura S., Hazama M., Nishie T., Harada A.,
RA Yanamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RT "RIKEN integrated sequence analysis (RISA) system-384-format

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RT sequencing pipeline with 384 multicapillary sequencer.";
RL Genome Res. 10:1757-1771(2000).
RN [6]
RP STRAIN=C57BL/6J; TISSUE=Thymus;
RC STRAIN=C57BL/6J; Akiyama K., Akiyama T., Arakawa T., Bono H., Carninci P.,
RA Adachi J., Aizawa K., Hatanaka T., Hara A., Hashizume W.,
RA Fukuda S., Furuno N., Hatanaka K., Hiraoka T., Hirozane T.,
RA Hayaahida K., Hayatsu N., Hiramoto K., Kondo S., Konno H., Kouda M., Koya S.,
RA Hori F., Imotani K., Ishii Y., Itoh M., Kagawa I., Kasukawa T.,
RA Katoh H., Kawai J., Kojima Y., Kondo S., Konno H., Kouda M., Koya S.,
RA Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M.,
RA Nishi K., Nomura K., Numazaki R., Ohno M., Ohsato N., Okazaki Y.,
RA Saito R., Saitoh H., Sakai C., Sakai K., Sakazume N., Sano H.,
RA Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tagami M.,
RA Tagawa A., Takahashi F., Takaku-Akahira S., Takeda Y., Tanaka T.,
RA Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.;
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK042288; BAC31215.1; -.
DR HSP; P08921; IHNG.
DR MGD; MGI:96885; Ly9.
DR GO; GO:0005615; C:extracellular space; TAS.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00409; Ig; 2.
DR PROSITE; PS50835; IG_LIKE; 2.
FT NON_TER 538
SQ STRAIN=C57BL/6J; TISSUE=Thymus;
Query Match 15.2%; Score 183.5; DB 2; Length 538;
Best Local Similarity 27.1%; Pred. No. 8.6e-06;
Matches 64; Conservative 45; Mismatches 108; Indels 19; Gaps 9;
Qy 6 GALS---RASRALRLAPFVYL-LIOTDPLEGVNITSPVRLIHGTGKSLLSVQVYSTS 61
Db 14 GPLSENPRMSQQIIFSPILWIPLLFLMLGIGASGKETPTPTVISGMLGGSVTFLNISKDA 73
Qy 62 SDRPVKWLKRDKPVTVVQSIGTEVIGTLPDPRDRIRLFPENG-SLLSLDLQLADEGTY 120
Db 74 EIEHII-WNC---PPKALALVFYKDIITLDKNGRLKRVSEDSYSLYMNILFKSDSGSY 129
Qy 121 EVESITDDTFTGKTNLTVDVPIRPOVLVASTVTLSEBFTLNCSEHENGTPKSP-- 177
Db 130 HAQINQKNVLTITNKEFTLHIYEKLQKQIIVSVTPSDTDSCTFTLICT-VKGTQDSVQ 188
Qy 178 YTWLKGKPLNDSRMLSPDQKVLITITVLMEDDDLXSCMVENPISQGRSLPVKI 233
Db 189 YSWTRE-----DTHLNTYDGSHTLRVSQSVCDDPLFTCKAWNPVSQNSQPVR 238

RESULT 13
Q6NZB6 PRELIMINARY; PRT; 645 AA.
AC Q6NZB6;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Ly9 protein (Fragment).
GN Name=Ly9;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP STRAIN=C57BL/6Ncr; TISSUE=Hematopoietic Stem Cell;
RC STRAIN=C57BL/6Ncr; PubMed=12477932; DOI=10.1073/pnas.242603899;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heish F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

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RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raba S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A.C., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smallos D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6NCR; TISSUE=Hematopoietic Stem Cell;
RA Strausberg R.;
RL Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC066212; AAH66212.1; -;
DR GO; GO:0005615; C:extracellular space; TAS.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR Pfam; PF00047; ig; 1.
DR SMART; SM00409; IG; 2.
DR PROSITE; PS00835; IG_LIKE; 2.
FT NON TER 1
SQ SEQUENCE 645 AA; 71884 MW; 316EF183DFD510BB CRC64;

Query Match 15.2%; Score 183.5; DB 2; Length 645;
Best Local Similarity 27.1%; Pred. No. 1.1e-05;
Matches 64; Conservative 45; Mismatches 108; Indels 19; Gaps 9;
QY 6 GALS---RASRALRLAPFVYL-LLIQTDPLEGVNITSPVRLIHGTGKSAALLSVQYSSTS 61
DB 5 GPLSENPMSSQQIFSPILWIPLLFLMLGLGASGKETPTTVISGMLGSGVTFSLNISKDA 64
QY 62 SDRPVVWQKLRKDPVTVQSIGTEVIGTLRPDYRDRIRLFENG-SLLSLDLQADEGTY 120
DB 65 EIEHII-WNC---PPKALALVFKKDTILDKGYNGRLKVSDEGYSVLSNLTGSDSGY 120
QY 121 EVEISITDDTFTGKTNLTVDVPSRPQVLVASTTVLEL-SEAFTLNCSHENGTKPS-- 177
DB 121 HAQINQKNVILTNKEFTLHYEKLQKQIIVESVTPSDTSCFTLLICT-VKGTQDSVQ 179
QY 178 YTWLKDGPRLNDSRMLSPDQKVLITRVLMEDDDLSCMVNPISQGRSLPVKI 233
DB 180 YSWTRE-----DTHLNTYDGSHTLRVSQVCDPLPYTCKANPVSQNSQPVR 229

RESULT 14
Q7TMP7 PRELIMINARY; PRT; 649 AA.
AC Q7TMP7;
DT 01-OCT-2003 (TRENBLrel. 25, Created)
DT 01-OCT-2003 (TRENBLrel. 25, Last sequence update)
DT 01-MAR-2004 (TRENBLrel. 26, Last annotation update)
DE Ly9 protein (Fragment).
GN Name=Ly9;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6NCR; TISSUE=Hematopoietic Stem Cell;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner I., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raba S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A.C., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smallos D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6NCR; TISSUE=Hematopoietic Stem Cell;
RA Strausberg R.;
RL Submitted (JUL-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC055380; AAH55380.1; -;
DR HSSP; P08921; IHNG.
DR GO; GO:0005615; C:extracellular space; TAS.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR Pfam; PF00047; ig; 1.
DR SMART; SM00409; IG; 2.
DR PROSITE; PS00835; IG_LIKE; 2.
FT NON TER 1
SQ SEQUENCE 649 AA; 72414 MW; AD6A09381C063B34 CRC64;

Query Match 15.2%; Score 183.5; DB 2; Length 649;
Best Local Similarity 27.1%; Pred. No. 1.1e-05;
Matches 64; Conservative 45; Mismatches 108; Indels 19; Gaps 9;
QY 6 GALS---RASRALRLAPFVYL-LLIQTDPLEGVNITSPVRLIHGTGKSAALLSVQYSSTS 61
DB 9 GPLSENPMSSQQIFSPILWIPLLFLMLGLGASGKETPTTVISGMLGSGVTFSLNISKDA 68
QY 62 SDRPVVWQKLRKDPVTVQSIGTEVIGTLRPDYRDRIRLFENG-SLLSLDLQADEGTY 120
DB 69 EIEHII-WNC---PPKALALVFKKDTILDKGYNGRLKVSDEGYSVLSNLTGSDSGY 124
QY 121 EVEISITDDTFTGKTNLTVDVPSRPQVLVASTTVLEL-SEAFTLNCSHENGTKPS-- 177
DB 125 HAQINQKNVILTNKEFTLHYEKLQKQIIVESVTPSDTSCFTLLICT-VKGTQDSVQ 183
QY 178 YTWLKDGPRLNDSRMLSPDQKVLITRVLMEDDDLSCMVNPISQGRSLPVKI 233
DB 184 YSWTRE-----DTHLNTYDGSHTLRVSQVCDPLPYTCKANPVSQNSQPVR 233

RESULT 15
LY9_MOUSE STANDARD; PRT; 654 AA.
AC Q01965; Q9ES29; Q9ES35; Q9ES36;
DT 01-JUN-1994 (Rel. 29, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE T-lymphocyte surface antigen Ly-9 precursor (lymphocyte antigen 9)
DE (Cell-surface molecule Ly-9).
GN Name=Ly9; Synonyms=Ly-9;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A., AND POLYMORPHISM.
RC STRAIN=129/SV, BALB/c, and C57BL/6; TISSUE=Spleen;
RX MEDLINE=20424510; PubMed=10970093; DOI=10.1007/s002510000209;
RA Tovar V., de la Fuente M.A., Pizcueta P., Bosch J., Engel P.,

RT "Gene structure of the mouse leukocyte cell surface molecule Ly9.";
 RL Immunogenetics 51:788-793(2000).
 RN [2]
 RP SEQUENCE OF 22-654 FROM N.A., AND SEQUENCE OF 48-59.
 RX MEDLINE=92373005; PubMed=1506686;
 RA Sandrin M.S., Gumley T.P., Henning M.M., Vaughan H.A., Genez L.J.,
 RA Trapani J.A., McKenzie I.F.C.;
 RT "Isolation and characterization of cDNA clones for mouse Ly-9.";
 RL J. Immunol. 149:1636-1641(1992).
 CC -!- FUNCTION: May participate in adhesion reactions between T
 CC lymphocytes and accessory cells by homophilic interaction.
 CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -!- TISSUE SPECIFICITY: Lymphocytes.
 CC -!- SIMILARITY: Contains 2 immunoglobulin-like C2-type domains.
 CC -!- SIMILARITY: Contains 2 immunoglobulin-like V-type domains.
 CC -----
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
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 CC -----
 DR EMBL; AF244131; AAG14997.1; -;
 DR EMBL; AF244130; AAG14996.1; -;
 DR EMBL; AF246701; AAG13268.2; -;
 DR EMBL; AF245117; AAG13268.2; JOINED.
 DR EMBL; AF245506; AAG13268.2; JOINED.
 DR EMBL; AF245118; AAG13268.2; JOINED.
 DR EMBL; AF245507; AAG13268.2; JOINED.
 DR EMBL; AF245508; AAG13268.2; JOINED.
 DR EMBL; AF245509; AAG13268.2; JOINED.
 DR EMBL; AF245510; AAG13268.2; JOINED.
 DR EMBL; AF246699; AAG13268.2; JOINED.
 DR EMBL; AF246700; AAG13268.2; JOINED.
 DR EMBL; M84412; AAA39468.1; -;
 DR HSSP; P08921; 1HNG.
 DR MGD; MGI:96885; Ly9.
 DR InterPro; IPR003599; IG.
 DR InterPro; IPR007110; IG-like.
 DR Pfam; PF00047; Ig; 2.
 DR SMART; SM00409; IG; 2.
 DR PROSITE; PS50835; IG LIKE; 2.
 KW Antigen; Cell adhesion; Direct protein sequencing; Glycoprotein;
 KW Immunoglobulin domain; Polymorphism; Repeat; Signal; Transmembrane.
 KW SIGNAL
 FT CHAIN 1 47
 FT DOMAIN 48 654
 FT TRANSMEM 48 453
 FT DOMAIN 454 474
 FT DOMAIN 475 654
 FT DOMAIN 48 158
 FT DOMAIN 159 243
 FT DOMAIN 250 362
 FT DOMAIN 353 453
 FT DISULFID 172 242
 FT DISULFID 178 222
 FT DISULFID 376 445
 FT DISULFID 382 426
 FT CARBOHYD 68 120
 FT CARBOHYD 120 231
 FT CARBOHYD 231 284
 FT CARBOHYD 284 390
 FT CARBOHYD 390 412
 FT CARBOHYD 412 423
 FT CARBOHYD 423 434
 FT CARBOHYD 434 434
 FT VARIANT 10 14
 FT VARIANT 14 14
 FT VARIANT 79 79
 FT VARIANT 91 91
 FT VARIANT 130 130
 FT VARIANT 139 139

FT VARIANT 362 362 P -> S.
 FT VARIANT 366 366 K -> N (in Ly9-1).
 FT VARIANT 377 377 E -> K (in Ly9-1).
 FT VARIANT 550 550 M -> I (in Ly9-1).
 FT VARIANT 592 592 F -> E (in Ly9-1).
 FT CONFLICT 283 283 F -> L (in Ref. 2).
 FT CONFLICT 499 499 T -> P (in Ref. 2).
 FT CONFLICT 560 560 V -> L (in Ref. 2).
 FT CONFLICT 647 654 TPTVENFT -> SPYL (in Ref. 2).
 SQ SEQUENCE 654 AA; 73142 MW; 1CBBE99708AE8E7 CRC64;
 Query Match 15.2%; Score 183.5; DB 1; Length 654;
 Best Local Similarity 27.1%; Pred. No. 1.1e-05;
 Matches 64; Conservative 45; Mismatches 108; Indels 19; Gaps 9;
 QY 6 GALS---RASRALRLAPFVYL-LLIQTDPLEGVNIITSPVRLIHGTVGKALLSVQSSSTS 61
 DB 14 GPLSENPRMSQQQIFSPILWIPLLFLMLGLGASGKETPTPTVISGMLGGSVTFSLNISKDA 73
 QY 62 SDRPVVKWLKRDKPVTVVQSIGTEVIGTLRPDYRDRIRLFENG-SLLISDLQLADEGTY 120
 DB 74 EIEHII-WNC---PPKALALVFYKKDITLDKGYNGLKVSDEGYSLYKSNLTKSDEGSY 129
 QY 121 EVEISITDDTFTGKKTINLTVDVPISRPQVLVASTTTLLEL-SEAFITLNCSEHNGTKPS-- 177
 DB 130 HAQINQKNVILTTNKEFTLHIEYELKQPKQIIVESVTPSDTDSCTFTLICT-VKGTKDSVQ 188
 QY 178 YTWLKGKPLNDSRMLLSPDQKVLITITRVLMEDDDLYSCWENPISQGRSLPVKI 233
 DB 189 YSWTRE-----DTHLNTYDGSHTLRVSQVCPDPLPYTCCKAWNPVSONSSQPVRI 238

Search completed: July 26, 2005, 16:12:58

Job time : 62.4446 secs

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OM protein - protein search, using sw model

Run on: July 26, 2005, 15:58:02 ; Search time 22.1316 Seconds
(without alignments)
1665.085 Million cell updates/sec

Title: US-10-706-691-26

Perfect score: 1962

Sequence: 1 VNITSPVRLIHGTGKSALL.....TAGVHIHQDEAGPVEISA 383

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

PIR_79.*

1: Pirl.*

2: Pirl.*

3: Pirl.*

4: Pirl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	218.5	11.1	351	1 RWHUC2	T-cell surface gly
2	216	11.0	341	2 JCL152	biliary glycoprote
3	207.5	10.6	278	2 JCL156	biliary glycoprote
4	202.5	10.3	278	2 A39037	carcinoembryonic a
5	194.5	9.9	483	2 T17346	hypothetical prote
6	189	9.6	365	2 JCT780	coxsackie- and ade
7	188.5	9.6	1091	2 A58532	glial cell membran
8	188	9.6	341	2 JCL151	biliary glycoprote
9	186.5	9.5	458	2 JCL159	biliary glycoprote
10	185	9.4	272	2 I48268	biliary glycoprote
11	181.5	9.3	521	2 S34338	biliary glycoprote
12	180.5	9.2	347	2 S41638	T-cell surface gly
13	180.5	9.2	629	2 A46500	Ly-9.2 antigen m
14	179.5	9.1	278	2 JCL1507	biliary glycoprote
15	176.5	9.0	475	2 A54879	pregnancy-specific
16	173.5	8.8	344	1 RWRTC2	T-cell surface gly
17	173.5	8.8	853	1 IUBONC	neural cell adhesi
18	172.5	8.8	858	1 IJRTNC	neural cell adhesi
19	170.5	8.7	526	1 A32164	biliary glycoprote
20	170.5	8.7	1227	2 T23004	hypothetical prote
21	168	8.6	761	1 IJHUNG	neural cell adhesi
22	166	8.5	458	2 S68177	C-CAM2a protein is
23	166	8.5	458	2 S23969	cell-adhesion mole
24	166	8.5	519	2 A44783	ecto-ATPase precur
25	166	8.5	1091	1 IJCHNL	neural cell adhesi
26	165	8.4	475	2 T76668	pregnancy-specific
27	164.5	8.4	299	2 S56749	junctional adhesio
28	164	8.4	464	2 C30127	transmembrane carc
29	163.5	8.3	725	2 JBO100	neural cell adhesi

ALIGNMENTS

RESULT 1

RWHUC2

T-cell surface glycoprotein CD2 precursor - human

N;Alternate names: E rosette receptor; erythrocyte receptor; erythrocyte-binding protein

C;Species: Homo sapiens (man)

C;Date: 31-Mar-1989 #sequence revision 31-Mar-1989 #text change 09-Jul-2004

C;Accession: A28967; A26486; B26486; A28416; A28023; S02292; A30430; S00829; A29874

R;Diamond, D.J.; Clayton, L.K.; Sayre, P.H.; Reinherz, E.L.

Proc. Natl. Acad. Sci. U.S.A. 85, 1615-1619, 1988

A;Title: Exon-intron organization and sequence comparison of human and murine T11 (CD2)

A;Reference number: A28967; MUID:88144486; PMID:2894031

A;Accession: A28967

A;Molecule type: DNA

A;Residues: 1-351 <DIA>

A;Cross-references: UNIPROT:P06729; GB:M19806; GB:J03622; GB:J03623; NID:G180079; PIDN:A

R;Sewell, W.A.; Brown, M.H.; Dunne, J.; Owen, M.J.; Crumpton, M.J.

Proc. Natl. Acad. Sci. U.S.A. 83, 8718-8722, 1986

A;Title: Molecular cloning of the human T-lymphocyte surface CD2 (T11) antigen.

A;Reference number: A26486; MUID:87041523; PMID:3490670

A;Accession: A26486

A;Molecule type: mRNA

A;Residues: 1-338,'M',340,'Q'QKTHCPLPLIKKDRNCLFQ' <SE1>

A;Accession: B26486

A;Molecule type: protein

A;Residues: 25-46,'X',50 <SE2>

R;Sewell, W.A.; Brown, M.H.; Dunne, J.; Owen, M.J.; Crumpton, M.J.

Proc. Natl. Acad. Sci. U.S.A. 84, 7256, 1987

A;Reference number: A28416

A;Contents: revision

A;Accession: A28416

A;Molecule type: mRNA

A;Residues: 333-351 <SE3>

R;Seed, B.; Aruffo, A.

Proc. Natl. Acad. Sci. U.S.A. 84, 3365-3369, 1987

A;Title: Molecular cloning of the CD2 antigen, the T-cell erythrocyte receptor, by a rap

A;Reference number: A28023; MUID:87204137; PMID:2437578

A;Accession: A28023

A;Molecule type: mRNA

A;Residues: 1-265,'Q',267-351 <SEE>

A;Cross-references: GB:M16445; NID:G178668; PIDN:AAA51738.1; PID:G178669

R;Sayre, P.H.; Chang, H.C.; Husev, R.E.; Brown, N.R.; Richardson, N.E.; Spagnoli, G.; CJ

Proc. Natl. Acad. Sci. U.S.A. 84, 2941-2945, 1987

A;Title: Molecular cloning and expression of T11 cDNAs reveal a receptor-like structure

A;Reference number: S02292; MUID:87204243; PMID:2883656

A;Accession: S02292

A;Molecule type: mRNA

A;Residues: 1-338,'M',340,'Q'QKTHCPLPLIKKDRNCLFQ' <SA1>

A;Cross-references: GB:M16336; NID:G180093; PIDN:AAA51946.1; PID:G180094

A;Accession: A30430

A;Molecule type: protein

A;Residues: 25-43,152-163 <SA2>

R;Lang, G.; Wotton, D.; Owen, M.J.; Sewell, W.A.; Brown, M.H.; Mason, D.Y.; Crumpton, M.

```

F;87,104,153,195/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match          11.0%; Score 216; DB 2; Length 341;
Best Local Similarity 26.1%; Pred. No. 2.9e-06;
Matches 73; Conservative 48; Mismatches 125; Indels 34; Gaps 9;

Qy 40 RDKPVTWVQSIGTEVIGTLR-----PDYRDRIRLRFENGSLLSLDQLADEGTYEVEISITD 95
   : ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||:
Db 69 KGNPVSNTAEIVHQVGTGNTKTTTTPGAHSGRETIVYNSGSLLIQRTVTKDTGVYTIIE--MTD 126
   : ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||:

Qy 96 DTF-TGSEKTLNLTVDPVIPSRPQVLVASTTVLELSEAFITLNCSEHNGTKPSYTWLKDQKPL 154
   : ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||:
Db 127 ENFRRTATVQFHVQHPVTQPSLQVNTTIVKEL-DSVTLTCL-SNDIGANIQLFNSQSL 184

Qy 155 LNDSRMLLSPDQKVLITRVLMEDDDDLYSCWVENPISQGRSLPVKITVYRRSLYII--- 211
   : ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||:
Db 185 QLTERWTLSONSILRIDPIKREDAGEYQCEISNPVSVKRSNSIKLDI-----IPDPT 237

Qy 212 ----LSTG-----GIFLLVTLTVCAWKPKSRKKQKLEKQNSLEYMDQNDRLKPEAD 261
   : ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||:
Db 238 QGGLSDCAIAGIVIGVVAGVALLAGLAYFLYSRKSQGGSDQDRLTEHKPSTNHNLA PSD 297
   : ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||:

Qy 262 TLPRSQEQRKPMALYILKDKDSPETEENPAPEPRSAT 301
   : ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||:
Db 298 NSP-----NKVDDVATVTLNFNSQQPNRPTSA PPRATE 332
   : ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||:

RESULT 3
JC1506
biliary glycoprotein B - mouse
C/Species: Mus musculus (house mouse)
C/Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 09-Jul-2004
C/Accession: JC1506
R/McCuaign, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.
Gene 127, 173-183, 1993
A/Title: Expression of the Bgp gene and characterization of mouse colon biliary
A/Reference number: JC1505; PMID:93273228; PMID:8500759
A/Accession: JC1506
A/Status: nucleic acid sequence not shown
A/Molecule type: mRNA
A/Residues: 1-278 <MCC>
A/Cross-references: UNIPROT:Q99232
C/Comment: This protein is expressed at the cell surface and plays a determinant
C/Genetics:
A/Gene: Bgpb
C/Superfamily: biliary glycoprotein; carcinoembryonic antigen precursor amino-
C/Keywords: glycoprotein; receptor
F/1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEA>
F/159-216/Domain: immunoglobulin homology <IMM>
F;87,104,153,195/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match          10.6%; Score 207.5; DB 2; Length 278;
Best Local Similarity 32.1%; Pred. No. 7.5e-06;
Matches 54; Conservative 32; Mismatches 73; Indels 9; Gaps 5;

Qy 40 RDKPVTWVQSIGTEVIGTLR-----PDYRDRIRLRFENGSLLSLDQLADEGTYEVEISITD 95
   : ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||:
Db 69 KGNPVSNTAEIVHQVGTGNTKTTTTPGAHSGRETIVYNSGSLLIQRTVTKDTGVYTIIE--MTD 126

Qy 96 DTF-TGSEKTLNLTVDPVIPSRPQVLVASTTVLELSEAFITLNCSEHNGTKPSYTWLKDQKPL 154
   : ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||:
Db 127 ENFRRTATVQFHVQHPVTQPSLQVNTTIVKEL-DSVTLTCL-SNDIGANIQLFNSQSL 184

Qy 155 LNDSRMLLSPDQKVLITRVLMEDDDDLYSCWVENPISQGRSLPVKITV 202
   : ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||:
Db 185 QLTERWTLSONSILRIDPIKREDAGEYQCEISNPVSVKRSNSIKLDI 232

RESULT 4
A39037
carcinoembryonic antigen mmCGM2 precursor - mouse
N/Alternate names: biliary glycoprotein homology; calcium-dependent cell adhesio
C/Species: Mus musculus (house mouse)

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Db      165  -----HSQLSVLPAAAGCKRGGTGVGIFTIAVSSIVLTSLVWVCIIYQTRKKSE----- 213
Qy      243  QNSLEYMQNDQDLRLKPEADTLPRSGEQERKNPMALYILKDKDSFETE---ENPAPPRSA 299
Db      214  ----EYSVNTDDETVPVPDVPVSLSSQGLSDRQETVVRTEGGGPQANGHIESNGVCPRDA 269
Qy      300  TE-PGPGGVSVSPAVPGRSPGL-----PIRSARR----- 327
Db      270  SHFPEPDTHSVACRQPLKAGSAHYHKPEWKAMEKAEGTGPHKMEHGRVVCSDCNTEVD 329
Qy      328  -YPRSPARSPATGRTHSSPPRAPSSP 352
Db      330  CYSRGQAFHPQPVSRDSAQPSAPNGP 355

RESULT 6
JC7780
coxsaackie- and adenovirus receptor - bovine
C:Species: Bos primigenius taurus (cattle)
C:Date: 02-Apr-2002 #sequence_revision 02-Apr-2002 #text_change 09-Jul-2004
C:Accession: JC7780
R:Thoelein, I.; Keyaerts, E.; Lindberg, M.; Van Ranst, M.
Biochem. Biophys. Res. Commun. 288, 805-808, 2001
A:Title: Characterization of a cDNA encoding the bovine coxsackie and adenovirus
A:Reference number: JC7780
A:Contents: Liver
A:Accession: JC7780
A:Molecule type: mRNA
A:Residues: 1-365 <THO>
A:Cross-references: UNIPROT:Q8WVW3; GB:AY033651
C:Comment: This protein serves as the primary adenoviral attachment site on bovi

Query Match          9.6%; Score 189; DB 2; Length 365;
Best Local Similarity 23.2%; Pred. No. 0.00015;
Matches 91; Conservative 63; Mismatches 137; Indels 102; Gaps 19;

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```

1  VNIISFVRIIRHVGKSAULTSVQISSISDR PVVNNKDKRKFVIVQSI-----GIEV 34
20  LSITTPQEMIERAKGETAYLPCKFTLGPEDQGPLDIEWLLSPADNQKVDQVILYSGDKI 79
55  IGTLRPDYDRIRLPEN-----GSLLLGLDLADSGTVEVEISITDDFTTGKTIINLTV 108
80  YDYIYQDLKGRVHRFTNSDLKSGDASINVTNLQSDIDGTQCKVKKAPG--VGNKKIQLTV 137
109  DVPISRPQVLVASTTVLELSEAFLLNCSHENGTKP--SYTLWKDGKPLNDSRML----- 161
138  LVKPSGIRCVVDGSE--EIGNDFKLCEPKESGLPLRYEWQK-----LSDSQKLPTSWLP 190
162  --LSPQKVLATTRVLMEDDDLVYSCMVENPIISGRSLPVKITVYRRSS-----LYIILST 214
191  EMTSP--VISVKNAESAEGSYTCTVRNRVGSQDCL-LRLLDVPPSNRAGTIAGAVIGT 246
215  GGIFLLVTLVTVCACWKPKSRKQKLEKONSLEYMDONDRLLKPEADTILPRSGEQERKNP 274
247  LLALVLIALIVFC-CHK--KRREKYEK-----VHHDIR----- 278
275  MALYILKDKDSPETENPAPERPSATEP---GPPGYSVSPVPGRSPG-----LPIR 323
279  -----EDVPPKSTRTARSYIGSNHSSLGMSFSPNMEGYSKTYNQVPSE 324
324  SARRYPRSPARSPATGRTHSSPPRAPSPSPGRSR 356
325  DLERAPQSP-----TLPPAKVAAPNLSR 347

RESULT 7
A58532
glial cell membrane glycoprotein LIG-1 precursor - mouse
C,Species: Mus musculus (house mouse)
C,Date: 11-Apr-1997 #sequence_revision 11-Apr-1997 #text_change 09-Jul-2004
C,Accession: A58532
R,Suzuki, Y.; Sato, N.; Tohyama, M.; Wanaka, A.; Takagi, T.

```

J. Biol. Chem. 271, 22522-22527, 1996
A;Title: cDNA cloning of a novel membrane glycoprotein that is expressed specifically in
A;Reference number: A58532; MUID:96394313; PMID:18798419
A;Accession: A58532
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-1091 <SUZ>
A;Cross-references: UNIPROT:P70193; GB:D78572; NID:g1545806; PIDN:BAAL1416.1; PID:g15458
F;36-61/Domain: proteoglycan amino-terminal homology <PAH>
F;71-94/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR1>
F;95-117/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR2>
F;118-141/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>
F;142-165/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR4>
F;166-189/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR5>
F;191-213/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR6>
F;214-237/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR7>
F;238-261/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR8>
F;262-285/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR9>
F;286-309/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR10>
F;310-333/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR11>
F;334-357/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR12>
F;358-381/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR13>
F;385-408/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR14>
F;409-432/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR15>
F;440-485/Domain: proteoglycan carboxyl-terminal homology <PCH>

Query Match 9.6%; Score 188.5; DB 2; Length 1091;
Best Local Similarity 21.1%; Pred. No. 0.0006;
Matches 79; Conservative 56; Mismatches 122; Indels 117; Gaps 16;

Qy 12 GTVCKSALLSVQYSTSSDRPVKWKLRKRPVTVVQSIGTEVIGTLRPDYRIRLF-- 69
Db 615 GTTAR-----DECAATHGNPQIAWQ--KQG-----GTFPPAARER-RMHVM 653

Qy 70 -ENGLLSLDLQLADEGTYEVEISITDDTFTGKTIINLTVDVPISRPQVLV-ASTTVLEL 127
Db 654 PDDVFFITVDKIDMGVY-----SCTAQSAGSVSANATLV-LETSLAVPLEDRVTV 708

Qy 128 SEATFLNCSENGHYKPSYTWLKGKPLNDSRMLSPDQKVLTVTRVLMEDDDLYSCWVE 187
Db 709 GETVAFOCATGSPTRITWLKGRPLSLTERHFTFGNQLLVQVNVQNMIDAGRYTCMS 768

Qy 188 NPISQGRSLPVKITVYRSSLVIILSTG-----GIF-----LLVTLTVVCACWK 231
Db 769 NPLGTERA-----HSQSLIPTGCRKDGTVGLFTAVVCSVLISLWVWCIIYQ 819

Qy 232 PSKRKQK-----KLEKQNSLE-----YMDQN----- 252
Db 820 TRKKEEYVNTDETIVPPDPVPSVLSQGLSDRQETVVRTEGGHQANGHIESNGVCLR 879

Qy 253 DDLKPEADTLPRGQER-----KNPMALYILKDKD-----SPETE 289
Db 880 DPSLPFPEVDIHSITCRQPKLGVGTREPWKVTEKADRTAAPHTTAHSGAVSCDCSDTA 939

Qy 290 ENPAPEPSATERG 303
Db 940 YHPQFVPRKDSGQPG 953

RESULT 8
JCI1509
biliary glycoprotein G - mouse
C;Species: Mus musculus (house mouse)
C;Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 09-Jul-2004
C;Accession: JCI1511
R;McCuagig, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.
Gene 127, 173-183, 1993
A;Title: Expression of the Bgp gene and characterization of mouse colon biliary glycopro
A;Reference number: JCI1505; MUID:93273228; PMID:8500759
A;Accession: JCI1511
A;Molecule type: DNA
A;Residues: 1-341 <MCC>
A;Cross-references: UNIPROT:Q61353; GB:X67282

C;Comment: This protein is expressed at the cell surface and plays a determinant role in
C;Genetics:
A;Gene: Bgpg
C;Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termin
C;Keywords: glycoprotein; receptor
F;1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
F;75-124/Domain: immunoglobulin homology <IMM1>
F;159-216/Domain: immunoglobulin homology <IMM2>
F;71,89,104,153,195/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;71,89,104,153,195/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 9.6%; Score 188; DB 2; Length 341;
Best Local Similarity 25.2%; Pred. No. 0.00015;
Matches 64; Conservative 45; Mismatches 115; Indels 30; Gaps 8;

Qy 62 YRDIRLRFENGSLLSLDLQLADEGTYEVEISITDDTFTGKTIINLTVDVPISRPQVLVA 120
Db 95 YSGREIYISNGSLLFQMITKMGVYTLTLD--MTDENYRRTQATVRFHVHQPVTQPFLOVT 152

Qy 121 STTVLELSEAFITLNCSENGHYKPSYTWLKGKPLNDSRMLSPDQKVLTVTRVLMEDDD 180
Db 153 NTVVKEL-DSVTLTCL-SNDIGANIQLFNSQSLQTLTERMTLSQNSILRIDIKREDAG 210

Qy 181 LYSCHVENPISQGRSLPVKITVYRSSLVIILSTG-----LSTG-----GIFLLVTLTVVC 227
Db 211 EYQCEISNPVSVRRSNSIKLDI-----IFDPTQGGSLSDGAIAGIVGVVAGVALLIAGL 263

Qy 228 ACWKPSKRRKQKLEKQNSLEYMDQNDRLXPEADTLPRSGEQERKNPMALYILKDKDSPE 287
Db 264 AYLKRSKGGSDQDRLTEHKPSTGNHNLAPSDNSP-----NKVDDVAVTVLNFNSQQP 318

Qy 288 TEENPAPEPSATE 301
Db 319 NRTPSAPSSPRATE 332

RESULT 9
JCI1509
biliary glycoprotein E - mouse
C;Species: Mus musculus (house mouse)
C;Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 09-Jul-2004
C;Accession: JCI1509
R;McCuagig, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.
Gene 127, 173-183, 1993
A;Title: Expression of the Bgp gene and characterization of mouse colon biliary glycopro
A;Reference number: JCI1505; MUID:93273228; PMID:8500759
A;Accession: JCI1509
A;Molecule type: mRNA
A;Residues: 1-458 <MCC>
A;Cross-references: UNIPROT:Q61351; GB:X67280
C;Comment: This protein is expressed at the cell surface and plays a determinant role in
C;Genetics:
A;Gene: Bgpe
C;Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termin
C;Keywords: glycoprotein; receptor
F;1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
F;160-219/Domain: immunoglobulin homology <IMM1>
F;254-303/Domain: immunoglobulin homology <IMM2>
F;339-396/Domain: immunoglobulin homology <IMM3>
F;87,104,148,199,206,210,226,258,290,294,304,333,375/Binding site: carbohydrate (Asn) (c

Query Match 9.5%; Score 186.5; DB 2; Length 458;
Best Local Similarity 27.4%; Pred. No. 0.00027;
Matches 52; Conservative 38; Mismatches 83; Indels 17; Gaps 6;

Qy 40 RDKPVTVQSIGTEVIGTLR----PYDRDIRLRFENGSLLSLDLQLADEGTYEVEISITD 95
Db 69 KGNPVSNAEIVHQVTGNTKTTTGPASGRETYSNGSLTIQRTVTVKDTGYTIE--MTD 126

Qy 96 DTF-TGKTIINLTVDVPISRPQVLVASTTVLELSEAFITLNC-SHENGTKSYTWLKDQKP 153
Db 127 ENFRTEATQVQFVHPVLLKPNITSNNSNVEGDSVSLTCDSTDPDNTILNRSNGES 186

Qy 154 LLNDSRMLSPDQKVLTVTRVLMEDDDLYSCWVENPISQGRSLPVKITVYRSSLY---- 209

Db 187 LSEGRDLKLSGKRLTLNLTNRNDTPGVCTRNPNVNSRDPSPSLNI-----IYGPDT 241
Qy 210 IILSTGGIFL 219
Db 242 PIISPSDIYL 251

RESULT 10
148268
biliary glycoprotein - mouse
C:Species: Mus musculus (house mouse)
C:Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004
C:Accession: I48268
R:Nedellec, P.; Dveksler, G.S.; Daniels, E.; Turbide, C.; Chow, B.; Basile, A.A.; Holmes
J. Virol. 68, 4525-4537, 1994
A:Title: Bgp2, a new member of the carcinoembryonic antigen-related gene family, encodes
A:Reference number: A53995; MUID:94267915; PMID:8207827
A:Accession: I48268
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-272 <RES>
A:Cross-references: UNIPROT:Q8R1N5; EMBL:X76085; NID:G511020; PIDN:CAA53699.1; PID:G5110
C:Genetics:
A:Gene: Bgp2
C:Superfamily: biliary glycoprotein; carcinoembryonic antigen precursor amino-terminal h
C:Keywords: glycoprotein
F:1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
F:159-216/Domain: immunoglobulin homology <IMW>

Query Match 9.4%; Score 185; DB 2; Length 272;
Best Local Similarity 25.7%; Pred. No. 0.00018;
Matches 62; Conservative 45; Mismatches 86; Indels 48; Gaps 9;

Qy 10 IHGTGKSLLSV-----QVSTSSDRPVVWQKRDKPVVTVQSIGTEVIG 56
Db 43 LHAAGNNVILVWYNNMKGVSAFHWKGGTSTTNAEIVRFVTGNTKTIK----- 91

Qy 57 TLRPYDRIRLFPENGSLLSDLQADRGTEVEISITDDTF-----TGEKTNLTVDVP 111
Db 92 --GPVHSGRETLVNGSLLIQRTVMKDTGVVTIE--MTDQNYRRRLVTGQ----FHVHKK 143

Qy 112 ISRPQVLVASTVLELSEAFNLNCSHENGTKPSVTWLDKGLPLNDSRMLSPQKVLTI 171
Db 144 VTQPSLVQNTVTKEL-DSVLTCLSKD-QRAHIIHIFNNTLITERTTTSQAGLILKI 201

Qy 172 TRVLMEDDLYSCMVENPISQGRSLPVKITVYRRSSLYI-----ILSTG---GIFLLVT 222
Db 202 DPIKREDAGEYQCEISNPVSKRSNSIKLEIVFDSTVDISDVPIAVIITGAVAGVILIAG 261

Qy 223 L 223
Db 262 L 262

RESULT 11
S34338
biliary glycoprotein F - mouse
N:Alternate names: mouse hepatitis virus (MHV) receptor glycoprotein
C:Species: Mus musculus (house mouse)
C:Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 09-Jul-2004
C:Accession: S34338; JCL1510; A41093
R:Huang, D.C.; Huang, X.F.; Novel, M.; Novel, G.
submitted to the EMBL data library, July 1992
A:Description: A Clp-family gene present on the lactose-protease plasmid of lactococcus
A:Reference number: S34338
A:Accession: S34338
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-521 <HUA>
A:Cross-references: UNIPROT:Q61352; EMBL:X67281; NID:G312585; PIDN:CAA47698.1; PID:G3125
R:McQuaig, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.
Gene 127, 173-183, 1993

A:Title: Expression of the Bgp gene and characterization of mouse colon biliary glycopro
A:Reference number: JCL1505; MUID:93273228; PMID:8500759
A:Accession: JCL1510
A:Molecule type: mRNA
A:Residues: 1-81,'Q',83-141,'P',143-521 <MCC>
A:Cross-references: GB:X67281
R:Williams, R.K.; Jiang, G.S.; Holmes, K.V.
Proc. Natl. Acad. Sci. U.S.A. 88, 5533-5536, 1991
A:Title: Receptor for mouse hepatitis virus is a member of the carcinoembryonic antigen
A:Reference number: A41093; MUID:91288498; PMID:1648219
A:Accession: A41093
A:Status: preliminary
A:Molecule type: protein
A:Residues: 35-59 <WL>
C:Comment: This protein is expressed at the cell surface and plays a determinant role in
C:Genetics:
A:Gene: Bgpf
C:Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termin
C:Keywords: glycoprotein; receptor
F:1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
F:160-219/Domain: immunoglobulin homology <IMM1>
F:254-303/Domain: immunoglobulin homology <IMM2>
F:339-396/Domain: immunoglobulin homology <IMM3>
F:87,104,148,199,206,210,226,258,290,294,304,333,375/Binding site: carbohydrate (Asn) (C
F:87,104,148,199,206,210,226,258,290,294,304,333,375/Binding site: carbohydrate (Asn) (C

Query Match 9.3%; Score 181.5; DB 2; Length 521;
Best Local Similarity 27.4%; Pred. No. 0.00065;
Matches 52; Conservative 37; Mismatches 84; Indels 17; Gaps 6;

Qy 40 RDKPVTVVQSIGTEVIGTLR----PDYRDRIRLFPENGSLLSDLQADRGTEVEISITD 95
Db 69 KGNPVSNAEIVHPTVTGNTKTTGPAHSGRETVVYNGSLLIQRTVMKDTGVVTIE--MTD 126

Qy 96 DTP-TGEKTNLTVDVPISRPQVLVASTVLELSEAFNLNCSHENGTKPSYTWLKGK 153
Db 127 ENFRTEATQFVHQLLKNPTNNSNPNVEGDSVSLTCDSTDPDNTIYLSRNGES 186

Qy 154 LLNDSRMLSPDQKVLITRVLMEDDLVSQGRSLPVKITVYRRSSLYI---- 209
Db 187 LSEGRDLKLSGKRLTLNLTNRNDTPGVCTRNPNVNSRDPSPSLNI-----IYGPDT 241

Qy 210 IILSTGGIFL 219
Db 242 PIISPSDIYL 251

RESULT 12
S41638
T-cell surface glycoprotein CD2 precursor - horse
N:Alternate names: T-lymphocyte surface antigen CD2
C:Species: Equus caballus (domestic horse)
C:Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 09-Jul-2004
C:Accession: S41638; S31578
R:Tavernor, A.S.; Kydd, J.H.; Bodian, D.L.; Jones, E.Y.; Stuart, D.I.; Davis, S.J.; Butcl
Eur. J. Biochem. 219, 969-976, 1994
A:Title: Expression cloning of an equine T-lymphocyte glycoprotein CD2 cDNA. Structure-b
A:Reference number: S41638; MUID:94155904; PMID:7906650
A:Accession: S41638
A:Molecule type: mRNA
A:Residues: 1-347 <TAV>
A:Cross-references: UNIPROT:P37998; EMBL:X69884; NID:G1057; PIDN:CAA49511.1; PID:G1058
C:Superfamily: T-cell surface glycoprotein CD2
C:Keywords: glycoprotein; surface antigen; T-cell; transmembrane protein
F:1-24/Domain: signal sequence #status predicted <SIG>
F:25-347/Product: T-cell surface glycoprotein CD2 #status predicted <MAT>

Query Match 9.2%; Score 180.5; DB 2; Length 347;
Best Local Similarity 26.8%; Pred. No. 0.00046;
Matches 80; Conservative 42; Mismatches 121; Indels 55; Gaps 14;

Qy 68 LFPENGSLLSDLQADRGTEVEISITDDTFTEKTNLTVDVPISRPQVLVASTVLEL 127
Db 81 VLKNGTLKIKHLRIHBGTVKYDAYDSGKNVLEETPHLSLLEWVSKPNISWSCTNT--- 137

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QY 128 SEAFILNCSEHGKPSYTWLKGKPLNDSRMLSPDQKVLITTRVLMEDDDDLYSCWVE 187
Db 138 -----TLTCEVTGKDFE-----LKN-----LYLNGRMIOKSPKVIIVYKRASNOIAS-FKCTAN 185
QY 188 NPISQGRSLPKVITVYRRSSLIYI--LSTGGIFLLVTLVTVACWCKPSKQKQKLEKONS 245
Db 186 NTYSEESSVVIRCTEGLDIYLSIGCGGIIILFVFLALL--IFYISKKK-----KONS 238
QY 246 LEYNDNDRLKPADTLPRSGEGRKNPMALYTLKDKSPETEENPA----PSPRSATEP 302
Db 239 ----RRNDEELEIRAHKV--ISEERGRKPHQI-----PGSTPLNPAASQPPPPSHRP 285
QY 303 GPPCYSVSPAVGSPGLP-IRSARRYPRSPARSPAT-----GRTHSSPPR 347
Db 286 QAPGH--RPQVPGHRPLPPGHRVHQOQKRPAPTFGTQAHQKQGPPLPRPRVQPKPR 341

RESULT 13
A46500
Ly-9.2 antigen - mouse
C:Species: Mus musculus (house mouse)
C>Date: 18-Jun-1993 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
C:Accession: A46500
R:Sandrin, M.S.; Gumley, T.P.; Henning, M.M.; Vaughan, H.A.; Gonez, L.J.; Trapani, J.A.;
J. Immunol. 149, 1636-1641, 1992
A:Title: Isolation and characterization of cDNA clones for mouse Ly-9.
A:Reference number: A46500; MUID:92373005; PMID:1506686
A>Status: preliminary
A:Molecule type: mRNA; protein
A:Residues: 1-629 <SAN>
A:Cross-references: GB:M84412; NID:G198931; PIDN:AAA39468.1; PID:G198932
A:Experimental source: C57BL/6
A:Note: sequence extracted from NCBI backbone (NCBIN:111651, NCBIPI:111654)
C:Keywords: transmembrane protein

Query Match 9.2%; Score 180.5; DB 2; Length 629;
Best Local Similarity 27.5%; Pred. No. 0.00095;
Matches 55; Conservative 40; Mismatches 90; Indels 15; Gaps 7;

QY 5 SPVRLIHGTGKSAALLSVQYSTSSDRPVVWQKLRDKPVTTVQSIGTEVIGTLRPDYRD 64
Db 29 TPPTVISGLGSGVTFSNLISKDAEIHII-WNC---PPKALALVFYKKDITILDKYNG 84
QY 65 RIRLPENG-SLLLSDLQADSGTVEVEISITDDTF-TGEKTLNLTVDVIPSRPQVLVASTT 123
Db 85 RLKVSDEGSLYMGNLTKSDSGSYHAQINQKNVILTTNKEFTLHIYEKLOKQPIIVESVT 144
QY 124 VLEL-SEAFILNCSEHGKTPS--YTWLKGKPLNDSRMLSPDQKVLITTRVLMEDDDD 180
Db 145 PSDDTDSCTFTLIC-T-VKGTQDSVQYSWTRE-----DTHLNTYDGSHTLRVSQVCDPDL 197
QY 181 LYSCHVENPISQGRSLPKVI 200
Db 198 PYTCKANPVSQSSQPVRI 217

RESULT 14
JC1507
biliary glycoprotein C - mouse
C:Species: Mus musculus (house mouse)
C>Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 09-Jul-2004
C:Accession: JC1507
R:McCuag, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.
Gene 127, 173-183, 1993
A:Title: Expression of the Bgp gene and characterization of mouse colon biliary glycopro
A:Reference number: JC1505; MUID:93273228; PMID:8500759
A:Accession: JC1507
A:Molecule type: mRNA
A:Residues: 1-278 <MCC>
A:Cross-references: UNIPROT:Q61350; GB:X67278
C:Comment: This protein is expressed at the cell surface and plays a determinant role in
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C:Genetics:

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A:Gene: BpPC
C:Superfamily: biliary glycoprotein; carcinoembryonic antigen precursor amino-terminal h
C:Keywords: glycoprotein; receptor
F;1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
F;75-124/Domain: immunoglobulin homology <IMM1>
F;159-216/Domain: immunoglobulin homology <IMM2>
F;71,89,104,153,195/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 9.1%; Score 179.5; DB 2; Length 278;
Best Local Similarity 31.7%; Pred. No. 0.0004;
Matches 45; Conservative 29; Mismatches 63; Indels 5; Gaps 4;

QY 62 YRDIRILFENGSLLLSDQLADSGTVEVEISITDDTF-TGEKTLNLTVDVIPSRPQVLVA 120
Db 95 YSGREIYNGSLLFQMITWKMGMVTLTD--WTDENYRRTQATVRFHVHQVTPQFLQVT 152
QY 121 STTVLSEAFILNCSEHGKTPSYTWLKGKPLNDSRMLSPDQKVLITTRVLMEDDDD 180
Db 153 NITVKEL-DSVTLTCL-SNDIGANIQLFNSQSLQTLTERMTLSQNNLSILRIDPIKREDAG 210
QY 181 LYSCHVENPISQGRSLPKVITV 202
Db 211 EYQCEISNPNVSVRRSNSIKLDI 232

RESULT 15
A54879
pregnancy-specific glycoprotein rncgm3 - rat
C:Species: Rattus norvegicus (Norway rat)
C>Date: 19-Jan-1996 #sequence_revision 19-Jan-1996 #text_change 09-Jul-2004
C:Accession: A54879
R:Chen, H.; Chen, C.-L.; Chou, J.-Y.
Biochemistry 33, 9615-9626, 1994
A:Title: Characterization of two promoters of a rat pregnancy-specific glycoprotein gene
A:Reference number: A54879; MUID:94347731; PMID:8068638
A:Accession: A54879
A>Status: preliminary
A:Molecule type: DNA
A:Residues: 1-475 <CHE>
A:Cross-references: UNIPROT:Q82664; GB:U09815; NID:G947254; PIDN:AAAS6870.1; PID:G947255
A:Note: authors translated the codon GCT for residue 64 as Gly
C:Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termin
C:Keywords: glycoprotein
F;1-137/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAL>
F;242-378/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEA2>
F;399-456/Domain: immunoglobulin homology <IMM2>

Query Match 9.0%; Score 176.5; DB 2; Length 475;
Best Local Similarity 32.3%; Pred. No. 0.0012;
Matches 64; Conservative 24; Mismatches 95; Indels 15; Gaps 8;

QY 11 HGTVGKSAALLSVQYSTSSDRPVVKW-----QLKRDKPVTVVQSIGTEVIGTLRPDYRDR 65
Db 284 HAVEGESVLLYVH--NLPEALQTFWSYKGYSLKEFK--IAEYSIATKSVFP-GPAHRGR 338
QY 66 IRLFENGSLLLSDQLADSGTVEVEISITDDTF-TGEKTLNLTVDVIPSRPQVLVASTV- 124
Db 339 ATGTNGSLLLQDLTARDTGLTYL-VILDSNISKISAPVQVTVHKPVTQFLRTESTVT 397
QY 125 LELSEAFILNCSEHGKTPSYTWLKGKPLNDSRMLSPDQKVLITTRVLMEDDDDLYSC 184
Db 398 VQSSVWFT--CLSDN-TGVSIKMLFKQNQLQVTERMTLSQNNLSILRIDPIKREDAGQYRC 454
QY 185 MVENPISQGRSLPKVITV 202
Db 455 EAFNPISSTKTSRPVSLAV 472

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Job time : 23.1316 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 26, 2005, 15:58:52 ; Search time 28.2793 seconds
(without alignments)
1011.008 Million cell updates/sec

Title: US-10-706-691-26

Perfect score: 1962

Sequence: 1 VNITSPVRLHGTGKSALL.....TAGVHIHQDEAGPVEISA 383

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:**

- 1: /cgn2_6/ptodata/1/iaa/5A COMB.pep:**
- 2: /cgn2_6/ptodata/1/iaa/5B COMB.pep:**
- 3: /cgn2_6/ptodata/1/iaa/6A COMB.pep:**
- 4: /cgn2_6/ptodata/1/iaa/6B COMB.pep:**
- 5: /cgn2_6/ptodata/1/iaa/PCTUS COMB.pep:**
- 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	268	13.7	450	4	US-09-907-794A-320
2	268	13.7	450	4	US-09-905-125A-320
3	268	13.7	450	4	US-09-902-775A-320
4	268	13.7	450	4	US-09-906-700-320
5	268	13.7	450	4	US-09-903-603A-320
6	268	13.7	450	4	US-09-904-920A-320
7	268	13.7	450	4	US-09-909-064-320
8	268	13.7	450	4	US-09-905-381A-320
9	268	13.7	450	4	US-09-906-618-320
10	218.5	11.1	351	3	US-08-466-465-6
11	218.5	11.1	351	4	US-09-730-465-6
12	199.5	10.2	1101	3	US-08-986-485-2
13	196.5	10.0	387	3	US-09-175-928-2
14	195	9.9	316	4	US-08-397-243D-13
15	189.5	9.7	319	1	US-08-597-495B-22
16	189.5	9.7	319	3	US-09-068-051A-22
17	189.5	9.7	319	4	US-09-336-536-67
18	189.5	9.7	319	4	US-08-254-465A-6
19	189.5	9.7	319	4	US-09-953-499-6
20	188.5	9.6	1091	3	US-08-986-485-5
21	185	9.4	365	2	US-08-979-424-3
22	185	9.4	365	3	US-08-928-383B-2
23	185	9.4	365	3	US-09-272-496-2
24	185	9.4	365	4	US-09-949-016-6064
25	185	9.4	383	4	US-09-949-016-11050
26	184	9.4	365	3	US-08-928-383B-26
27	183.5	9.4	270	4	US-09-254-465A-24

Sequence 24, Appl
Sequence 26, Appl
Sequence 26, Appl
Sequence 2, Appl
Sequence 4, Appl
Sequence 23, Appl
Sequence 24, Appl
Sequence 6, Appl
Sequence 24, Appl
Sequence 6428, Ap
Sequence 483, App
Sequence 7327, Ap
Sequence 4, Appl
Sequence 24, Appl
Sequence 10, Appl
Sequence 12, Appl
Sequence 10, Appl

28 183.5 9.4 270 4 US-09-953-499-24
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30 183.5 9.4 273 4 US-09-953-499-26
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32 179 9.1 441 4 US-09-651-200-4
33 178 9.1 365 3 US-08-928-383B-23
34 178 9.1 365 3 US-08-928-383B-24
35 178 9.1 534 4 US-09-651-200-6
36 178 9.1 534 4 US-09-651-200-24
37 177.5 9.0 328 4 US-09-949-016-6428
38 177.5 9.0 329 4 US-09-149-476-483
39 177.5 9.0 332 4 US-09-949-016-7327
40 177.5 9.0 365 4 US-09-899-634C-4
41 175 8.9 316 4 US-09-910-174B-24
42 175 8.9 316 4 US-09-620-461-24
43 172.5 8.8 300 4 US-09-254-465A-10
44 172.5 8.8 300 4 US-09-397-243D-12
45 172.5 8.8 300 4 US-09-953-499-10

ALIGNMENTS

RESULT 1

US-09-907-794A-320
; Sequence 320, Application US/09907794A

; Patent No. 6635468

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Deans, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kijavini, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/907,794A

; CURRENT FILING DATE: 2001-07-17

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

1 PRIOR FILING DATE: 1999-09-15
2 PRIOR APPLICATION NUMBER: PCT/US99/23089
3 PRIOR FILING DATE: 1999-10-05
4 PRIOR APPLICATION NUMBER: PCT/US99/28214
5 PRIOR FILING DATE: 1999-11-29
6 PRIOR APPLICATION NUMBER: PCT/US99/28313
7 PRIOR FILING DATE: 1999-11-30
8 PRIOR APPLICATION NUMBER: PCT/US99/28564
9 PRIOR FILING DATE: 1999-12-02
10 PRIOR APPLICATION NUMBER: PCT/US99/28565
11 PRIOR FILING DATE: 1999-12-02
12 PRIOR APPLICATION NUMBER: PCT/US99/30095
13 PRIOR FILING DATE: 1999-12-16
14 PRIOR APPLICATION NUMBER: PCT/US99/30911
15 PRIOR FILING DATE: 1999-12-20
16 PRIOR APPLICATION NUMBER: PCT/US99/30999
17 PRIOR FILING DATE: 1999-12-20
18 PRIOR APPLICATION NUMBER: PCT/US00/00219
19 PRIOR FILING DATE: 2000-01-05
20 NUMBER OF SEQ ID NOS: 423
21 SEQ ID NO 320
22 LENGTH: 450
23 TYPE: PRT
24 ORGANISM: Homo Sapien
25 US-09-907-794A-320

Query Match 13.7%; Score 268; DB 4; Length 450;
Best Local Similarity 31.9%; Pred. No. 1.4e-13;
Matches 67; Conservative 43; Mismatches 90; Indels 10; Gaps 7;

Qy 1 VNITSPVRLIHGTGKSGALLSVQYS--STSSDRPVKWKQLKR--DKPVTVVQSIGTEVIG 56
Db 20 LKVTVPSTHVGVRGQALYLPVHYGFHTPASDIQII-WLPERHTMPKYLGSVKNKSWVP 78

Qy 57 TLRPDYDRIRLF-ENGSLLSLDLQADGTYEVEISIT-DDTFTGKTNLTVDVPISR 114
Db 79 DL--EYQHKFTMPNPASLLINPLQFPDEGNYIVKVNIGQNGTSLASQKIQTVDVDPVTK 136

Qy 115 PQVLV-ASTTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLSPDQKVLITR 173
Db 137 PVQIHPPSGAVEYVGNMTLTCHVEGGTRLAYQWLKNGRPVHTSTYSFSPQNTLTIAP 196

Qy 174 VLMEDDDLSCMVENPISQGRSLPVKITVY 203
Db 197 VTKEIDIGNYCLVRNPVSEMSDIIMPIIY 226

RESULT 2
US-09-905-125A-320
Sequence 320, Application US/09905125A
Patent No. 6664376
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann

1 APPLICANT: Stewart, Timothy A.
2 APPLICANT: Tumas, Daniel
3 APPLICANT: Williams, P. Mickey
4 APPLICANT: Wood, William, I.
5 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
6 FILE REFERENCE: 10466-14
7 CURRENT APPLICATION NUMBER: US/09/905,125A
8 CURRENT FILING DATE: 2001-07-12
9 PRIOR APPLICATION NUMBER: PCT/US00/04414
10 PRIOR FILING DATE: 2000-02-22
11 PRIOR APPLICATION NUMBER: US 60/143,048
12 PRIOR FILING DATE: 1999-07-07
13 PRIOR APPLICATION NUMBER: US 60/145,698
14 PRIOR FILING DATE: 1999-07-26
15 PRIOR APPLICATION NUMBER: US 60/146,222
16 PRIOR FILING DATE: 1999-07-28
17 PRIOR APPLICATION NUMBER: PCT/US99/20594
18 PRIOR FILING DATE: 1999-09-08
19 PRIOR APPLICATION NUMBER: PCT/US99/20944
20 PRIOR FILING DATE: 1999-09-13
21 PRIOR APPLICATION NUMBER: PCT/US99/21090
22 PRIOR FILING DATE: 1999-09-15
23 PRIOR APPLICATION NUMBER: PCT/US99/21547
24 PRIOR FILING DATE: 1999-09-15
25 PRIOR APPLICATION NUMBER: PCT/US99/23089
26 PRIOR FILING DATE: 1999-10-05
27 PRIOR APPLICATION NUMBER: PCT/US99/28214
28 PRIOR FILING DATE: 1999-11-29
29 PRIOR APPLICATION NUMBER: PCT/US99/28313
30 PRIOR FILING DATE: 1999-11-30
31 PRIOR APPLICATION NUMBER: PCT/US99/28564
32 PRIOR FILING DATE: 1999-12-02
33 PRIOR APPLICATION NUMBER: PCT/US99/28565
34 PRIOR FILING DATE: 1999-12-02
35 PRIOR APPLICATION NUMBER: PCT/US99/30095
36 PRIOR FILING DATE: 1999-12-16
37 PRIOR APPLICATION NUMBER: PCT/US99/30911
38 PRIOR FILING DATE: 1999-12-20
39 PRIOR APPLICATION NUMBER: PCT/US99/30999
40 PRIOR FILING DATE: 1999-12-20
41 PRIOR APPLICATION NUMBER: PCT/US00/00219
42 NUMBER OF SEQ ID NOS: 423
43 SEQ ID NO 320
44 LENGTH: 450
45 TYPE: PRT
46 ORGANISM: Homo Sapien
47 US-09-905-125A-320

Query Match 13.7%; Score 268; DB 4; Length 450;
Best Local Similarity 31.9%; Pred. No. 1.4e-13;
Matches 67; Conservative 43; Mismatches 90; Indels 10; Gaps 7;

Qy 1 VNITSPVRLIHGTGKSGALLSVQYS--STSSDRPVKWKQLKR--DKPVTVVQSIGTEVIG 56
Db 20 LKVTVPSTHVGVRGQALYLPVHYGFHTPASDIQII-WLPERHTMPKYLGSVKNKSWVP 78

Qy 57 TLRPDYDRIRLF-ENGSLLSLDLQADGTYEVEISIT-DDTFTGKTNLTVDVPISR 114
Db 79 DL--EYQHKFTMPNPASLLINPLQFPDEGNYIVKVNIGQNGTSLASQKIQTVDVDPVTK 136

Qy 115 PQVLV-ASTTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLSPDQKVLITR 173
Db 137 PVQIHPPSGAVEYVGNMTLTCHVEGGTRLAYQWLKNGRPVHTSTYSFSPQNTLTIAP 196

Qy 174 VLMEDDDLSCMVENPISQGRSLPVKITVY 203
Db 197 VTKEIDIGNYCLVRNPVSEMSDIIMPIIY 226

RESULT 3
US-09-902-775A-320


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; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
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; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-906-700-320

Query Match      13.7%; Score 268; DB 4; Length 450;
Best Local Similarity 31.9%; Pred. No. 1.4e-13;
Matches 67; Conservative 43; Mismatches 90; Indels 10; Gaps 7;

Qy 1 UNITSPVRLIHGTGKSAALLSVQYS--STSSDRPVVKWQLKR--DKPVTVVQSIGTEVIG 56
Db 20 LKVTVPSTHTVHGVRGQALYPVHYGFHTPASDIQII-WLPERPHTMPKYLIGSVNKSVP 78

Qy 57 TLRPDYDRIRLP-ENGSLLLSDLOADEGTYEVEISIT-DDTFTGKTNLTVDVPISR 114
Db 79 DL--EYQHKFTMPPNASLLINPLQFPDEGNYIVKVNIOGNTLSASOKIQVTVDDEPVT 136

Qy 115 POVLV-ASTTVLELSEAFNLCSHENGTKPSYTWLKDQKPLNDRLMSLLSPDQKVLITR 173
Db 137 PVQIHPSPGAVEYVGNWTLTCHVEGGTRLAYQWLKNGRPVHTSSTYSFSPQNTLHIAP 196

Qy 174 VLMEDDDLYSWMENPISQGRSLPVKITVY 203
Db 197 VTKEDIGNYCLVRNPVSEMSDIIMPIIY 226

RESULT 5
US-09-903-603A-320
; Sequence 320, Application US/09903603A
; Patent No. 6767995
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: GNE.1618P2C12
; CURRENT APPLICATION NUMBER: US/09/903,603A
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-903-603A-320
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; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
; ORGANISM: Homo Sapien
US-09-909-064-320

Query Match      13.7%; Score 268; DB 4; Length 450;
Best Local Similarity 31.9%; Pred. No. 1.4e-13;
Matches 67; Conservative 43; Mismatches 90; Indels 10; Gaps 7;

Qy 1 VNITSPVRLIHGTGKSAALLSVQYS--STSDRPVVKWQLKR--DKPVTVVQSIGTEVIG 56
Db 20 LKVTVPSTHTVHGVRGQALYLPVHYGFHTPASDIQII-WLPERPHTMPKYLGSVNVKSV 78

Qy 57 TLRPDYDRIRLRF-ENGSLLSLDLQADGTYEVEISIT-DDTFTGKTNLTVDVPISR 114
Db 79 DL--EYQHKFTMPNPASLLINPLQFPDEGNYIVKVNIOGNGTSLASQKIQTVDVPTK 136

Qy 115 PQVLV-ASTTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITR 173
Db 137 PVQIHPPSGAVEVGNMILTCHVEGGTRLAYQWLKNGRPVHTSSTYSFSPQNTLHIAP 196

Qy 174 VLMBDDDLYSVMENPISQGRSLPKITVY 203
Db 197 VTKEIDIGNYSLVRNPVSEMSDIIMPIY 226

RESULT 8
US-09-905-381A-320
; Sequence 320, Application US/09905381A
; Patent No. 6818746
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
```

```

Best Local Similarity 31.9%; Pred. No. 1.4e-13;
Matches 67; Conservative 43; Mismatches 90; Indels 10; Gaps 7

Qy 1 VNITSPVRLIHGTGKSAALLSVOYS--STGSDRPVVKWOLKR--DKPVTVVQSIGTEVIG 56
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 20 LKVTVPSTHVGVGQALYLPVHGFTHPASDIQII-WLPERPTHMPKYLIGSVNKSVP 78
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 57 TLRPDYDRIRLF-ENGSLLLSDIQLADEGTYYEISIT-DDTFTGEXTINLTVDVPISR 114
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 79 DL--EYQHKETMPNPNASLLINLPQFPDEGNYIVKVINQNGNTLSASQKIQTVDVDPVK 136
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 115 POVLV-ASTVLESEAFTLNCSHENGTKSPSYWLKDGKPLNDSRMLLSPDQKVLITIR 173
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 137 PVQIHPSPGAVEYVGNMTTCHVEGTRLAYQWLKNGRPVHTSTYSFSPQNTLHIAP 196
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 174 VLMEDDDLVSCMVENPISQGRSLPVKITVY 203
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 197 VTKEDIGNYSCLVRNPVSEMSDIIMPIY 226
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 10
US-08-466-465-6
; Sequence 6, Application US/08466465
; Patent No. 6162432
; GENERAL INFORMATION:
; APPLICANT: Wallner, Barbara P.
; APPLICANT: Cooper, Kevin D.
; TITLE OF INVENTION: Method of Prophylaxis or Treatment of Antigen
; TITLE OF INVENTION: Presenting Cell Driven Skin Conditions Using
; TITLE OF INVENTION: Inhibitors of the CD2/LFA-3 Interaction
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/466,465
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/08755
; FILING DATE: 06-OCT-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/862,022
; FILING DATE: 12-APR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/770,969
; FILING DATE: 07-OCT-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Myers, Louis (PLM)
; REGISTRATION NUMBER: 35,965
; REFERENCE/DOCKET NUMBER: BGP-111CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 351 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-466-465-6

Query Match 11.1%; Score 218.5; DB 3; Length 351;
Best Local Similarity 23.6%; Pred. No. 1.1e-09;
Matches 81; Conservative 53; Mismatches 148; Indels 61; Gaps 11;

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Search completed: July 26, 2005, 16:15:55
Job time : 29.2793 secs

Qy 1 VNITSPVRLIHGTGKSAALLSVQYSTSSDRPWVKWOLKRDKPVTWQSIGTEVIGTLRP 60

Dp 1 VNITSPVRLIHGTGKSAALLSVQYSTSSDRPWVKWOLKRDKPVTWQSIGTEVIGTLRP 60

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QY 61 DYDRIRLFENGSLLSLDQLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
DB 61 DYDRIRLFENGSLLSLDQLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
QY 121 STTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLTIITRVLMEDDD 180
DB 121 STTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLTIITRVLMEDDD 180
QY 181 LYSWMVENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLVTVACWKPSKRKOKKL 240
DB 181 LYSWMVENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLVTVACWKPSKRKOKKL 240
QY 241 EKONSLEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKDKDSPETENPAPEPSAT 300
DB 241 EKONSLEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKDKDSPETENPAPEPSAT 300
QY 301 EPGPYGSVSPAVPGRSFGLPIRSARRYPRSPARSPATGRTHTSSPPRAPSSPGRSRSASR 360
DB 301 EPGPYGSVSPAVPGRSFGLPIRSARRYPRSPARSPATGRTHTSSPPRAPSSPGRSRSASR 360
QY 361 TLRTAGVHIIREQDEAGPVEISA 383
DB 361 TLRTAGVHIIREQDEAGPVEISA 383

RESULT 2
US-10-706-691-16
; Sequence 16, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 16
; LENGTH: 416
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-16

Query Match 100.0%; Score 1962; DB 16; Length 416;
Best Local Similarity 100.0%; Pred. No. 1.1e-126;
Matches 383; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VNITSPVRLIHGTGKSALLSVQYSSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 60
DB 34 VNITSPVRLIHGTGKSALLSVQYSSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 93
QY 61 DYDRIRLFENGSLLSLDQLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
DB 94 DYDRIRLFENGSLLSLDQLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 153
QY 121 STTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLTIITRVLMEDDD 180
DB 154 STTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLTIITRVLMEDDD 213
QY 181 LYSWMVENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLVTVACWKPSKRKOKKL 240
DB 214 LYSWMVENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLVTVACWKPSKRKOKKL 273
QY 241 EKONSLEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKDKDSPETENPAPEPSAT 300
DB 274 EKONSLEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKDKDSPETENPAPEPSAT 333
QY 301 EPGPYGSVSPAVPGRSFGLPIRSARRYPRSPARSPATGRTHTSSPPRAPSSPGRSRSASR 360
DB 334 EPGPYGSVSPAVPGRSFGLPIRSARRYPRSPARSPATGRTHTSSPPRAPSSPGRSRSASR 393
QY 361 TLRTAGVHIIREQDEAGPVEISA 383
DB 394 TLRTAGVHIIREQDEAGPVEISA 416
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QY 241 EKONSLEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKDKDSPETENPAPEPSAT 300
DB 274 EKONSLEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKDKDSPETENPAPEPSAT 333
QY 301 EPGPYGSVSPAVPGRSFGLPIRSARRYPRSPARSPATGRTHTSSPPRAPSSPGRSRSASR 360
DB 334 EPGPYGSVSPAVPGRSFGLPIRSARRYPRSPARSPATGRTHTSSPPRAPSSPGRSRSASR 393
QY 361 TLRTAGVHIIREQDEAGPVEISA 383
DB 394 TLRTAGVHIIREQDEAGPVEISA 416

RESULT 3
US-10-706-691-41
; Sequence 41, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 41
; LENGTH: 416
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-41

Query Match 100.0%; Score 1962; DB 16; Length 416;
Best Local Similarity 100.0%; Pred. No. 1.1e-126;
Matches 383; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VNITSPVRLIHGTGKSALLSVQYSSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 60
DB 34 VNITSPVRLIHGTGKSALLSVQYSSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 93
QY 61 DYDRIRLFENGSLLSLDQLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
DB 94 DYDRIRLFENGSLLSLDQLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 153
QY 121 STTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLTIITRVLMEDDD 180
DB 154 STTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLTIITRVLMEDDD 213
QY 181 LYSWMVENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLVTVACWKPSKRKOKKL 240
DB 214 LYSWMVENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLVTVACWKPSKRKOKKL 273
QY 241 EKONSLEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKDKDSPETENPAPEPSAT 300
DB 274 EKONSLEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKDKDSPETENPAPEPSAT 333
QY 301 EPGPYGSVSPAVPGRSFGLPIRSARRYPRSPARSPATGRTHTSSPPRAPSSPGRSRSASR 360
DB 334 EPGPYGSVSPAVPGRSFGLPIRSARRYPRSPARSPATGRTHTSSPPRAPSSPGRSRSASR 393
QY 361 TLRTAGVHIIREQDEAGPVEISA 383
DB 394 TLRTAGVHIIREQDEAGPVEISA 416
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; PRIOR FILING DATE: 2000-11-22
; PRIOR APPLICATION NUMBER: US 60/251,825
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/255,085
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 224
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20040049010A1 382654CD1
; US-10-415-188-7

Query Match      59.0%; Score 1157; DB 15; Length 224;
Best Local Similarity 100.0%; Pred. No. 1.2e-71;
Matches 224; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 160 MLLSPDQKVLITITVLMEDDDLLYSCMVENPISQGRSLPVKITVYRRSLYIILSTGGIFL 219
Db 1 MLLSPDQKVLITITVLMEDDDLLYSCMVENPISQGRSLPVKITVYRRSLYIILSTGGIFL 60
Qy 220 LVTLVTVACWPKSRKQKLEKONSLEYMDQNDRLKPEADTLPRSGEQRKNPMALYI 279
Db 61 LVTLVTVACWPKSRKQKLEKONSLEYMDQNDRLKPEADTLPRSGEQRKNPMALYI 120
Qy 280 LKQKDSPEETENPAPEPRSPATEPGPGYGSVPVPGSPGLPIRSARRYPRSPARSPATG 339
Db 121 LKQKDSPEETENPAPEPRSPATEPGPGYGSVPVPGSPGLPIRSARRYPRSPARSPATG 180
Qy 340 RTHSSPPRAPSSPGRSRSASRTLRTAGVHIIREQDEAGPVEISA 383
Db 181 RTHSSPPRAPSSPGRSRSASRTLRTAGVHIIREQDEAGPVEISA 224

RESULT 7
US-10-706-691-22
; Sequence 22, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; PRIOR FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 22
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-706-691-22

Query Match      53.3%; Score 1045; DB 16; Length 207;
Best Local Similarity 100.0%; Pred. No. 5.4e-64;
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTGKSAALLSVQYSSSDRPVVKQKRDKPVTVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKSAALLSVQYSSSDRPVVKQKRDKPVTVVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLRFENGSLILLSDLQLADEGTVEVEISITDDTFTGKKTINLTVDPVPISRPQVLVA 120
Db 94 DYDRIRLRFENGSLILLSDLQLADEGTVEVEISITDDTFTGKKTINLTVDPVPISRPQVLVA 153
Qy 121 STTVLELSEAFITLNCSEHNGTKPSYTWLKDGPILLNDSRMLLSPDQKVLITITVLMEDDD 180
Db 154 STTVLELSEAFITLNCSEHNGTKPSYTWLKDGPILLNDSRMLLSPDQKVLITITVLMEDDD 213
Qy 181 LYSQMVENPISQGRSLPVKITVYRRSS 207
Db 214 LYSQMVENPISQGRSLPVKITVYRRSS 240

RESULT 8
US-10-706-691-20
; Sequence 20, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; PRIOR FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 20
; LENGTH: 240
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-706-691-20

Query Match      53.3%; Score 1045; DB 16; Length 240;
Best Local Similarity 100.0%; Pred. No. 6.5e-64;
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTGKSAALLSVQYSSSDRPVVKQKRDKPVTVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKSAALLSVQYSSSDRPVVKQKRDKPVTVVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLRFENGSLILLSDLQLADEGTVEVEISITDDTFTGKKTINLTVDPVPISRPQVLVA 120
Db 94 DYDRIRLRFENGSLILLSDLQLADEGTVEVEISITDDTFTGKKTINLTVDPVPISRPQVLVA 153
Qy 121 STTVLELSEAFITLNCSEHNGTKPSYTWLKDGPILLNDSRMLLSPDQKVLITITVLMEDDD 180
Db 154 STTVLELSEAFITLNCSEHNGTKPSYTWLKDGPILLNDSRMLLSPDQKVLITITVLMEDDD 213
Qy 181 LYSQMVENPISQGRSLPVKITVYRRSS 207
Db 214 LYSQMVENPISQGRSLPVKITVYRRSS 240

RESULT 9
US-10-706-691-43
; Sequence 43, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; DB 61 DYDRIRLRFENGSLILLSDLQLADEGTVEVEISITDDTFTGKKTINLTVDPVPISRPQVLVA 120
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; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Seqwin99, version 1.02
; SEQ ID NO 43
; LENGTH: 246
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-706-691-43

Query Match      53.3%; Score 1045; DB 16; Length 246;
Best Local Similarity 100.0%; Pred. No. 6.7e-64;
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTGKSAALLSVQSYSTSSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKSAALLSVQSYSTSSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLRFENGSLLLSDQLADEGTVEVEISITDDTFTGKTNLTVDPISRPQVLVA 120
Db 94 DYDRIRLRFENGSLLLSDQLADEGTVEVEISITDDTFTGKTNLTVDPISRPQVLVA 153
Qy 121 STTVLESEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDD 180
Db 154 STTVLESEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDD 213
Qy 181 LYSQWENPISQGRSLPVKITVYRRSS 207
Db 214 LYSQWENPISQGRSLPVKITVYRRSS 240

RESULT 10
US-10-112-944-434
; Sequence 434, Application US/10112944
; Publication No. US20040048249A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Yang, Yonghong
; APPLICANT: Weng, Gezhi
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Xue, Aidong J.
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Wehrman, Tom
; APPLICANT: Ghosh, Malabika
; APPLICANT: Wang, Dunrui
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wang, Zhiwei
; TITLE OF INVENTION: No. US20040048249A1el Nucleic Acids and
; FILE REFERENCE: 805A
; CURRENT APPLICATION NUMBER: US/10/112,944
; CURRENT FILING DATE: 2002-03-28
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: US 09/496,914
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: US 09/515,126
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: US 09/519,705
; PRIOR FILING DATE: 2000-03-07
; PRIOR APPLICATION NUMBER: US 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 09/552,929
; PRIOR FILING DATE: 2000-04-18
; PRIOR APPLICATION NUMBER: US 09/577,408
; PRIOR FILING DATE: 2000-05-18

; SOFTWARE: Pt_FL_genes Version 5.0
; SEQ ID NO 880
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-706-691-434

Query Match      52.4%; Score 1029; DB 15; Length 256;
Best Local Similarity 96.2%; Pred. No. 8.9e-63;
Matches 203; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTGKSAALLSVQSYSTSSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKSAALLSVQSYSTSSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLRFENGSLLLSDQLADEGTVEVEISITDDTFTGKTNLTVDPISRPQVLVA 120
Db 94 DYDRIRLRFENGSLLLSDQLADEGTVEVEISITDDTFTGKTNLTVDPISRPQVLVA 153
Qy 121 STTVLESEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDD 180
Db 154 STTVLESEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDD 213
Qy 181 LYSQWENPISQGRSLPVKITVYRRSSLYII 211
Db 214 LYSQWENPISQGRSLPVKITVYRRSSLYII 244

RESULT 11
US-10-112-944-880
; Sequence 880, Application US/10112944
; Publication No. US20040048249A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Yang, Yonghong
; APPLICANT: Weng, Gezhi
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Xue, Aidong J.
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Wehrman, Tom
; APPLICANT: Ghosh, Malabika
; APPLICANT: Wang, Dunrui
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wang, Zhiwei
; TITLE OF INVENTION: No. US20040048249A1el Nucleic Acids and
; FILE REFERENCE: 805A
; CURRENT APPLICATION NUMBER: US/10/112,944
; CURRENT FILING DATE: 2002-03-28
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: US 09/496,914
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: US 09/515,126
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: US 09/519,705
; PRIOR FILING DATE: 2000-03-07
; PRIOR APPLICATION NUMBER: US 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 09/552,929
; PRIOR FILING DATE: 2000-04-18
; PRIOR APPLICATION NUMBER: US 09/577,408
; PRIOR FILING DATE: 2000-05-18

; SOFTWARE: Pt_FL_genes Version 5.0
; SEQ ID NO 924
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-706-691-434
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US-10-112-944-880
Query Match      51.9%; Score 1018; DB 15; Length 256;
Best Local Similarity 96.6%; Pred. No. 5.1e-62;
Matches 201; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTVGKSALLSVQSSSTSSDRPVVVKWLKRDKPVTVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTVGKSALLSVQSSSTSSDRPVVVKWLKRDKPVTVVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLRFENGSLLSLSDQLADGTYEVEISITDDTFTGKTNLTVDVPIRQVLA 120
Db 94 DYDRIRLRFENGSLLSLSDQLADGTYEVEISITDDTFTGKTNLTVDVPIRQVLA 153
Qy 121 STTVLESEAPFLNCSEHGTFKPSYTWLKGKPLNDSRMLSPDOKVLAITITVLMEDDD 180
Db 154 STTVLESEAPFLNCSEHGTFKPSYTWLKGKPLNDSRMLSPDOKVLAITITVLMEDDD 213
Qy 181 LYSCMVENPISQGRSLPVKITVYRRSSL 208
Db 214 LYSCMVENPINOGRTLPCKITVYRKSSL 241

RESULT 12
US-10-706-691-24
; Sequence 24, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 24
; LENGTH: 110
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-24

Query Match      27.9%; Score 548; DB 16; Length 110;
Best Local Similarity 100.0%; Pred. No. 3.8e-30;
Matches 110; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTVGKSALLSVQSSSTSSDRPVVVKWLKRDKPVTVVQSIGTEVIGTLRP 60
Db 1 VNITSPVRLIHGTVGKSALLSVQSSSTSSDRPVVVKWLKRDKPVTVVQSIGTEVIGTLRP 60
Qy 61 DYDRIRLRFENGSLLSLSDQLADGTYEVEISITDDTFTGKTNLTVDV 110
Db 61 DYDRIRLRFENGSLLSLSDQLADGTYEVEISITDDTFTGKTNLTVDV 110

RESULT 13
US-10-706-691-4
; Sequence 4, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande

US-10-112-944-880
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 4
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-4

Query Match      27.9%; Score 548; DB 16; Length 114;
Best Local Similarity 100.0%; Pred. No. 3.9e-30;
Matches 110; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTVGKSALLSVQSSSTSSDRPVVVKWLKRDKPVTVVQSIGTEVIGTLRP 60
Db 5 VNITSPVRLIHGTVGKSALLSVQSSSTSSDRPVVVKWLKRDKPVTVVQSIGTEVIGTLRP 64
Qy 61 DYDRIRLRFENGSLLSLSDQLADGTYEVEISITDDTFTGKTNLTVDV 110
Db 65 DYDRIRLRFENGSLLSLSDQLADGTYEVEISITDDTFTGKTNLTVDV 114

RESULT 14
US-10-706-691-14
; Sequence 14, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 14
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-14

Query Match      26.6%; Score 522; DB 16; Length 100;
Best Local Similarity 100.0%; Pred. No. 2e-28;
Matches 100; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 284 DSPETENPAPEPRSATPEPGPGVSPVAPVGRSPGLPIRSARRYPSPARSATGRTHS 343
Db 1 DSPETENPAPEPRSATPEPGPGVSPVAPVGRSPGLPIRSARRYPSPARSATGRTHS 60
Qy 344 SPPRAPSSPGRSASRTLTAGVHIIREQDEAGPVEISA 383
Db 61 SPPRAPSSPGRSASRTLTAGVHIIREQDEAGPVEISA 100

RESULT 15
US-10-706-691-6
; Sequence 6, Application US/10706691
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; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 6
; LENGTH: 94
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-6

Query Match      24.7%; Score 484; DB 16; Length 94;
Best Local Similarity 100.0%; Pred. No. 7.8e-26;
Matches 94; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      111 PISRPQVLVASTTVLELSEAFLLNCSEHNGTKPSYTWLKGKPLINDSRMLLSPDQKVL 170
Db      1 PISRPQVLVASTTVLELSEAFLLNCSEHNGTKPSYTWLKGKPLINDSRMLLSPDQKVL 60

Qy      171 ITRVLMEDDDLVSCWVENPISQGRSLPVKITVYR 204
Db      61 ITRVLMEDDDLVSCWVENPISQGRSLPVKITVYR 94

Search completed: July 26, 2005, 16:21:19
Job time : 99.0554 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 26, 2005, 15:54:21 ; Search time 108.506 Seconds
(without alignments)
1365.166 Million cell updates/sec

Title: US-10-706-691-26

Perfect score: 1962

Sequence: 1 VNITSPVRLIHGTGKSALL.....TAGVHIHQEQAGPVEISA 383

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : A_Geneseq_16Dec04:*

- 1: geneseqp1980s:*
- 2: geneseqp1990s:*
- 3: geneseqp2000s:*
- 4: geneseqp2001s:*
- 5: geneseqp2002s:*
- 6: geneseqp2003as:*
- 7: geneseqp2003bs:*
- 8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1962	100.0	383	8	Ado47895 Human mat
2	1962	100.0	416	7	Abg75379 Predicted
3	1962	100.0	416	7	Abg75377 Human INS
4	1962	100.0	416	8	Ado47892 Human pro
5	1962	100.0	416	8	Adsl1056 Human the
6	1850	94.3	418	7	Abg75378 Murine IN
7	1318.5	67.2	367	8	Adg65357 Novel hum
8	1312	66.9	298	5	Aae14784 Human imm
9	1192	60.8	237	8	Ado47890 Human mat
10	1192	60.8	270	8	Ado47887 Human pro
11	1192	60.8	270	8	Adsl1055 Human the
12	1157	59.0	224	5	Aae26421 Human tra
13	1045	53.3	246	7	Abg75380 INSP052 e
14	1029	52.4	256	8	Adm87341 Human pro
15	1018	51.9	256	4	Adm24238 Human EST
16	1018	51.9	256	8	Adm87787 Human EST
17	1018	51.9	256	8	Adsl12269 Human the
18	1018	51.9	256	8	Adsl12268 Human the
19	548	27.9	114	7	Abg75371 Human INS
20	522	26.6	100	7	Abg75376 Human INS
21	484	24.7	188	7	Abg75372 Human INS
22	268	13.7	338	4	Am78339 Human pro
23	268	13.7	450	2	Aay13398 Amino aci
24	268	13.7	450	3	Adc78632 Human PRO
25	268	13.7	450	4	Aab80266 Human PRO

26	268	13.7	450	4	AAU12360 Human PRO
27	268	13.7	450	5	AAU81958 Human PRO
28	268	13.7	450	6	ABU71644 Human PRO
29	268	13.7	450	6	ABO17804 Novel hum
30	268	13.7	450	6	ABU71499 Human PRO
31	268	13.7	450	6	ABU81058 Human PRO
32	268	13.7	450	6	ABU71945 Human sec
33	268	13.7	450	6	ABO01828 Novel hum
34	268	13.7	450	6	ABU66758 Human PRO
35	268	13.7	450	6	ABU54401 Human sec
36	268	13.7	450	6	ABO47416 Human sec
37	268	13.7	450	6	ABU59839 Novel sec
38	268	13.7	450	6	ABO25029 Human sec
39	268	13.7	450	6	ABU64553 Human sec
40	268	13.7	450	6	ABU67399 Human sec
41	268	13.7	450	6	ABO14919 Human sec
42	268	13.7	450	6	ABU67034 Human sec
43	268	13.7	450	6	ABU69676 Novel hum
44	268	13.7	450	6	ABO14858 Human sec
45	268	13.7	450	6	ADA45897 Novel hum

ALIGNMENTS

RESULT 1
ADO47895
ID ADO47895 standard; protein; 383 AA.
XX AC ADO47895;
XX DT 15-JUL-2004 (first entry)
XX DE Human mature protein SEQ ID NO:12.

XX human; viricide; anti-HIV; cytostatic; antiinflammatory; antiallergic;
KW immunosuppressive; antiarteriosclerotic; hypotensive; osteopathic;
KW antianaemic; neuroprotective; nootropic; antiparkinsonian; antiasthmatic;
KW haemostatic; antidiabetic; cardiant; HIV; viral infection; cancer;
KW inflammation; allergy; graft rejection; atherosclerosis; hypertension;
KW osteoporosis; anaemia; Alzheimer's disease; Parkinson's disease; asthma;
KW diabetes; myocardial infarction; haemophilia.
XX OS Homo sapiens.
XX PN WO2004007672-A2.
XX PD 22-JAN-2004.
XX 09-JUL-2003; 2003WO-US021703.
XX PR 12-JUL-2002; 2002US-0395402P.
XX PA (NUVE-) NUVELO INC.
XX PI Rupp F, Wang J, Zhou P, Wehrman T, Wang ZW, Tang YT;
XX WPI: 2004-122914/12.
XX DR N-PSDB; ADO47893.
XX PT New isolated polypeptides and polynucleotides useful in diagnostics,
XX PT forensics, in preventing or treating diseases such as HIV and cancer, and
XX PT as drug targets.
XX PS Claim 10; SEQ ID NO 12; 205pp; English.
XX CC The invention relates to novel isolated polynucleotides and polypeptides
XX CC encoded by them. Also included are mutants or variants of the
XX CC polynucleotides and polypeptides. A polypeptide of the invention has
XX CC viricide, anti-HIV, cytostatic, antiinflammatory, antiallergic,
XX CC immunosuppressive, antiarteriosclerotic, hypotensive, osteopathic,
XX CC antianaemic, neuroprotective, nootropic, antiparkinsonian, antiasthmatic,
XX CC haemostatic, antidiabetic, and cardiant activity. The composition and

CC methods are useful in diagnostics, forensics, gene or chromosome mapping,
 CC identification of mutations responsible for genetic disorders or other
 CC traits, in assessing biodiversity, or in producing many other types of
 CC data and products dependent on DNA and amino acid sequences. They may
 CC also be used in preventing or treating diseases (e.g. HIV and other viral
 CC infections, cancer, inflammation, allergies, graft rejection,
 CC atherosclerosis, hypertension, osteoporosis, anaemia, Alzheimer's
 CC disease, Parkinson's disease, asthma, diabetes, myocardial infarction or
 CC haemophilia). They may also be used as targets in drug screening. The
 CC present sequence represents a polypeptide of the invention.

XX SQ Sequence 383 AA;

Query Match 100.0%; Score 1962; DB 8; Length 383;
 Best Local Similarity 100.0%; Pred. No. 2.7e-134;
 Matches 383; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTVGKSGALLSVQYSSSTSDRPVVKWQKRDKPTVVVQSIGTEVIGTLRP 60
 Db 1 VNITSPVRLIHGTVGKSGALLSVQYSSSTSDRPVVKWQKRDKPTVVVQSIGTEVIGTLRP 60
 Qy 61 DYDRIRLRFENGSLLLSDQLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
 Db 61 DYDRIRLRFENGSLLLSDQLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
 Qy 121 STTVLEISEAFTLNCSEHGKPSYTWLKDGPILLNDSRMLLSPDQKVLITITVLMEDDD 180
 Db 121 STTVLEISEAFTLNCSEHGKPSYTWLKDGPILLNDSRMLLSPDQKVLITITVLMEDDD 180
 Qy 181 LYSYCWENPISQGRSLPVKITVYRRSSLYIITLSTGGIFLLVTLTVTCACWKPKRKQKKL 240
 Db 181 LYSYCWENPISQGRSLPVKITVYRRSSLYIITLSTGGIFLLVTLTVTCACWKPKRKQKKL 240
 Qy 241 EKQNSLEYMDQNDRLKPEADTLPRSGEQRKNPMALYILKDKDSPETENPAPEPSAT 300
 Db 241 EKQNSLEYMDQNDRLKPEADTLPRSGEQRKNPMALYILKDKDSPETENPAPEPSAT 300
 Qy 301 EPGPPGVSVSPVPGRSPLPIRSARYPRSPATGRTHSSPPRAPSPPGRSRSASR 360
 Db 301 EPGPPGVSVSPVPGRSPLPIRSARYPRSPATGRTHSSPPRAPSPPGRSRSASR 360
 Qy 361 TLRTAGVHIIREQDEAGPVEISA 383
 Db 361 TLRTAGVHIIREQDEAGPVEISA 383

RESULT 2

ABG75379
 ID ABG75379 standard; protein; 416 AA.
 XX AC ABG75379;
 XX DT 22-APR-2004 (first entry)
 XX DE Predicted INSP052 protein.
 XX KW INSP052; human; cell proliferation; autoimmune disease; inflammation;
 KW cardiovascular disease; neurological disease; psychiatric disease;
 KW developmental disease; metabolic disorder; infection;
 KW immunoglobulin domain-containing cell surface recognition molecule.
 XX OS Unidentified.
 XX PN WO2003093316-A2.
 XX PD 13-NOV-2003.
 XX PF 30-APR-2003; 2003WO-GB001851.
 XX PR 30-APR-2002; 2002GB-00009884.
 XX PA (ARES-) ARES TRADING SA.
 XX

PI Davids AR, Fagan RJ, Phelps CB, Power C;
 XX WFI; 2003-903655/82.
 DR N-PSDB; ACH01277.
 XX New INSP052 polypeptides and nucleic acids, useful in diagnosing and
 PT treating cell proliferative, autoimmune/inflammatory, cardiovascular,
 PT neurological, psychiatric, developmental, genetic or metabolic disorder.
 XX Example 2; Fig 5; Opp; English.

XX The present invention provides the protein and coding sequences of a
 CC novel human immunoglobulin domain-containing cell surface recognition
 CC molecule known as INSP052. The polypeptide is useful as immunoglobulin
 CC domain-containing cell surface recognition molecule. The sequences may
 CC also be used in therapy or diagnosing a disease or in the manufacture of
 CC a medicament for treating a disease. The disease is a cell proliferative,
 CC autoimmune/inflammatory, cardiovascular, neurological, psychiatric,
 CC developmental, genetic or metabolic disorder, an infection or other
 CC pathological condition. The polypeptides and nucleic acids are essential
 CC to the structural integrity and homeostatic functioning of most tissues.
 CC The present sequence is a polypeptide shown in the invention

XX Sequence 416 AA;

Query Match 100.0%; Score 1962; DB 7; Length 416;
 Best Local Similarity 100.0%; Pred. No. 3e-134;
 Matches 383; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTVGKSGALLSVQYSSSTSDRPVVKWQKRDKPTVVVQSIGTEVIGTLRP 60
 Db 34 VNITSPVRLIHGTVGKSGALLSVQYSSSTSDRPVVKWQKRDKPTVVVQSIGTEVIGTLRP 93
 Qy 61 DYDRIRLRFENGSLLLSDQLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
 Db 94 DYDRIRLRFENGSLLLSDQLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 153
 Qy 121 STTVLEISEAFTLNCSEHGKPSYTWLKDGPILLNDSRMLLSPDQKVLITITVLMEDDD 180
 Db 154 STTVLEISEAFTLNCSEHGKPSYTWLKDGPILLNDSRMLLSPDQKVLITITVLMEDDD 213
 Qy 181 LYSYCWENPISQGRSLPVKITVYRRSSLYIITLSTGGIFLLVTLTVTCACWKPKRKQKKL 240
 Db 214 LYSYCWENPISQGRSLPVKITVYRRSSLYIITLSTGGIFLLVTLTVTCACWKPKRKQKKL 273
 Qy 241 EKQNSLEYMDQNDRLKPEADTLPRSGEQRKNPMALYILKDKDSPETENPAPEPSAT 300
 Db 274 EKQNSLEYMDQNDRLKPEADTLPRSGEQRKNPMALYILKDKDSPETENPAPEPSAT 333
 Qy 301 EPGPPGVSVSPVPGRSPLPIRSARYPRSPATGRTHSSPPRAPSPPGRSRSASR 360
 Db 334 EPGPPGVSVSPVPGRSPLPIRSARYPRSPATGRTHSSPPRAPSPPGRSRSASR 393
 Qy 361 TLRTAGVHIIREQDEAGPVEISA 383
 Db 394 TLRTAGVHIIREQDEAGPVEISA 416

RESULT 3

ABG75377
 ID ABG75377 standard; protein; 416 AA.
 XX AC ABG75377;
 XX DT 22-APR-2004 (first entry)
 XX DE Human INSP052 complete protein.
 XX KW INSP052; human; cell proliferation; autoimmune disease; inflammation;
 KW cardiovascular disease; neurological disease; psychiatric disease;
 KW developmental disease; metabolic disorder; infection;
 KW immunoglobulin domain-containing cell surface recognition molecule.
 XX

```
OS Homo sapiens.
XX WO2003093316-A2.
XX 13-NOV-2003.
XX 30-APR-2003; 2003WO-GB001851.
XX 30-APR-2002; 2002GB-00009884.
XX (ARES-) ARES TRADING SA.
XX Davids AR, Fagan RJ, Phelps CB, Power C;
XX WPI; 2003-903655/82.
XX N-PSDB; ACH01275.
XX New INSP052 polypeptides and nucleic acids, useful in diagnosing and
PT treating cell proliferative, autoimmune/inflammatory, cardiovascular,
PT neurological, psychiatric, developmental, genetic or metabolic disorder.
XX Claim 1; Page 67; Opp; English.
XX The present invention provides the protein and coding sequences of a
CC novel human immunoglobulin domain-containing cell surface recognition
CC molecule known as INSP052. The polypeptide is useful as immunoglobulin
CC domain-containing cell surface recognition molecule. The sequences may
CC also be used in therapy or diagnosing a disease or in the manufacture of
CC a medicament for treating a disease. The disease is a cell proliferative,
CC autoimmune/inflammatory, cardiovascular, neurological, psychiatric,
CC developmental, genetic or metabolic disorder, an infection or other
CC pathological condition. The polypeptides and nucleic acids are essential
CC to the structural integrity and homeostatic functioning of most tissues.
XX The present sequence is a polypeptide shown in the invention
XX Sequence 416 AA;
XX Query Match 100.0%; Score 1962; DB 7; Length 416;
XX Best Local Similarity 100.0%; Pred. No. 3e-134;
XX Matches 383; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 VNITSPVRLIHGTGKALLSVQYSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKALLSVQYSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 93
QY 61 DYDRIRLRFENGSLLSLDQLADEGTYEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
Db 94 DYDRIRLRFENGSLLSLDQLADEGTYEVEISITDDTFTGKTNLTVDVPISRPQVLVA 153
QY 121 STTVLELSEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLTTITRVLMEDD 180
Db 154 STTVLELSEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLTTITRVLMEDD 213
QY 181 LYSCHVENPISQGRSLPVKITYRRSSLYIILSTGGIFLLVTLVTVCAKWPSPKSKQKL 240
Db 214 LYSCHVENPISQGRSLPVKITYRRSSLYIILSTGGIFLLVTLVTVCAKWPSPKSKQKL 273
QY 241 EKQNSLEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKDQSPETEENPAPEPRSAT 300
Db 274 EKQNSLEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKDQSPETEENPAPEPRSAT 333
QY 301 EPGPPGYSVPAVPCRSPLTRRSARRYPSPARSATGRTHSSPPRAPSPPGRSRSASR 360
Db 334 EPGPPGYSVPAVPCRSPLTRRSARRYPSPARSATGRTHSSPPRAPSPPGRSRSASR 393
QY 361 TLRTAGVHIIREQDEAGPVEISA 383
Db 394 TLRTAGVHIIREQDEAGPVEISA 416
RESULT 4
ID ADO47892
ADO47892 standard; protein; 416 AA.
```

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XX ADO47892;
XX 15-JUL-2004 (first entry)
XX Human protein SEQ ID NO:9.
XX human; virucide; anti-HIV; cytostatic; antinflammatory; antiallergic;
XX immunosuppressive; antiarteriosclerotic; hypotensive; osteopathic;
XX antianaemic; neuroprotective; nootropic; antiparkinsonian; antiasthmatic;
XX haemostatic; antidiabetic; cardiant; HIV; viral infection; cancer;
XX inflammation; allergy; graft rejection; atherosclerosis; hypertension;
XX osteoporosis; anaemia; Alzheimer's disease; Parkinson's disease; asthma;
XX diabetes; myocardial infarction; haemophilia.
XX Homo sapiens.
XX WO2004007672-A2.
XX 22-JAN-2004.
XX 09-JUL-2003; 2003WO-US021703.
XX 12-JUL-2002; 2002US-0395402P.
XX (NUVE-) NUVELO INC.
XX Rupp F, Wang J, Zhou P, Wehrman T, Wang ZW, Tang YT;
XX WPI; 2004-122914/12.
XX N-PSDB; ADO47891.
XX New isolated polypeptides and polynucleotides useful in diagnostics,
XX forensics, in preventing or treating diseases such as HIV and cancer, and
XX as drug targets.
XX Claim 10; SEQ ID NO 9; 205pp; English.
XX The invention relates to novel isolated polynucleotides and polypeptides
XX encoded by them. Also included are mutants or variants of the
XX polynucleotides and polypeptides. A polypeptide of the invention has
XX virucide, anti-HIV, cytostatic, antinflammatory, antiallergic,
XX immunosuppressive, antiarteriosclerotic, hypotensive, osteopathic,
XX antianaemic, neuroprotective, nootropic, antiparkinsonian, antiasthmatic,
XX haemostatic, antidiabetic, and cardiant activity. The composition and
XX methods are useful in diagnostics, forensics, gene or chromosome mapping,
XX identification of mutations responsible for genetic disorders or other
XX traits, in assessing biodiversity, or in producing many other types of
XX data and products dependent on DNA and amino acid sequences. They may
XX also be used in preventing or treating diseases (e.g. HIV and other viral
XX infections, cancer, inflammation, allergies, graft rejection,
XX atherosclerosis, hypertension, osteoporosis, anaemia, Alzheimer's
XX disease, Parkinson's disease, asthma, diabetes, myocardial infarction or
XX haemophilia). They may also be used as targets in drug screening. The
XX present sequence represents a polypeptide of the invention.
XX Sequence 416 AA;
XX Query Match 100.0%; Score 1962; DB 8; Length 416;
XX Best Local Similarity 100.0%; Pred. No. 3e-134;
XX Matches 383; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 VNITSPVRLIHGTGKALLSVQYSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKALLSVQYSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 93
QY 61 DYDRIRLRFENGSLLSLDQLADEGTYEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
Db 94 DYDRIRLRFENGSLLSLDQLADEGTYEVEISITDDTFTGKTNLTVDVPISRPQVLVA 153
QY 121 STTVLELSEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLTTITRVLMEDD 180
Db 154 STTVLELSEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLTTITRVLMEDD 213
```

Qy	181	LYSCWVENPISQGRSLPVKITYRRSSLYIILSTGGIFLLVTLVTVCAWKPSKRQKKL	240	QY	1	VNITSPVRLIHGTGKSALLSVQYSTSSDRPVWKQLKRDKPVTVVQSIGTEVIGTLRP	60
Db	214	LYSCWVENPISQGRSLPVKITYRRSSLYIILSTGGIFLLVTLVTVCAWKPSKRQKKL	273	Db	34	VNITSPVRLIHGTGKSALLSVQYSTSSDRPVWKQLKRDKPVTVVQSIGTEVIGTLRP	93
Qy	241	EKQNSLEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKDKDSPETENPAPEPRSAT	300	Qy	61	DYRDRIRLFENGSLLLSDQLADEGYEVEISITDDFTTGEKTIINLTVDVPISRPOVLVA	120
Db	274	EKQNSLEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKDKDSPETENPAPEPRSAT	333	Db	94	DYRDRIRLFENGSLLLSDQLADEGYEVEISITDDFTTGEKTIINLTVDVPISRPOVLVA	153
Qy	301	EPGPGYSVSPAVPGRSPGLPIRSARYPRSPARSPATGRTHSSPPRAPSPGSRASR	360	Qy	121	STTVLELSAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLTITRVLMEDDD	180
Db	334	EPGPGYSVSPAVPGRSPGLPIRSARYPRSPARSPATGRTHSSPPRAPSPGSRASR	393	Db	154	STTVLELSAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLTITRVLMEDDD	213
Qy	361	TLRTAGVHIIREQDEAGPVEISA 383		Qy	181	LYSCWVENPISQGRSLPVKITYRRSSLYIILSTGGIFLLVTLVTVCAWKPSKRQKKL	240
Db	394	TLRTAGVHIIREQDEAGPVEISA 416		Db	214	LYSCWVENPISQGRSLPVKITYRRSSLYIILSTGGIFLLVTLVTVCAWKPSKRQKKL	273
RESULT 5				Qy	241	EKQNSLEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKDKDSPETENPAPEPRSAT	300
ID	ADS11056	standard; protein; 416 AA.		Db	274	EKQNSLEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKDKDSPETENPAPEPRSAT	333
XX	AC	ADS11056;		Qy	301	EPGPGYSVSPAVPGRSPGLPIRSARYPRSPARSPATGRTHSSPPRAPSPGSRASR	360
DT	16-DEC-2004	(first entry)		Db	334	EPGPGYSVSPAVPGRSPGLPIRSARYPRSPARSPATGRTHSSPPRAPSPGSRASR	393
XX	DE	Human therapeutic protein - SEQ ID 1293.		Qy	361	TLRTAGVHIIREQDEAGPVEISA 383	
XX	KW	antiinflammatory; neuroprotective; antianaemic; cytostatic; vulnerary;		Db	394	TLRTAGVHIIREQDEAGPVEISA 416	
KW	KW	inflammatory; haematopoiesis; immunity; neurodegenerative; stem cell;		RESULT 6			
KW	KW	aplastic anaemia; cancer; wound healing; gene therapy.		ID	ABG75378		
OS	OS	Homo sapiens.		XX	ID	ABG75378 standard; protein; 418 AA.	
XX	FN	WO2004080148-A2.		AC	ABG75378;		
XX	PD	23-SEP-2004.		XX	DT	22-APR-2004 (first entry)	
XX	XX			DE	DE	Murine-INSPO52 complete protein.	
PF	30-SEP-2003;	2003WO-US030720.		XX	XX	INSPO52; human; cell proliferation; autoimmune disease; inflammation;	
XX	XX			KW	KW	cardiovascular disease; neurological disease; psychiatric disease;	
PR	02-OCT-2002;	2002US-0416186P.		KW	KW	developmental disease; metabolic disorder; infection;	
PA	(NUVE-) NUVELO INC.			KW	KW	immunoglobulin domain-containing cell surface recognition molecule.	
Tang YT, Asundi V, Ren F, Zhang J, Wehrman T, Wang Z, Ma Y;				OS	OS	Mus sp.	
Wang D, Chen R, Zhao QA, Wang J, Ghosh M, Xue AU, Weng G, Zhou P;				XX	XX	WO2003093316-A2.	
WPI; 2004-668857/65.				PN	XX	13-NOV-2003.	
N-PSDB; ADS10372.				XX	XX	30-APR-2003; 2003WO-GB001851.	
New polynucleotide, useful in preparing a composition for diagnosing or				PF	PF	30-APR-2002; 2002GB-00009884.	
treating inflammatory, neurodegenerative or stem cell disorders, e.g.,				XX	XX	(ARES-) ARES TRADING SA.	
aplastic anemia or cancer for promoting wound healing.				PA	PA	Davids AR, Fagan RJ, Phelps CB, Power C;	
Claim 20; SEQ ID NO 1293; 718pp; English.				XX	XX	WPI; 2003-903655/82.	
The invention relates to a novel isolated polynucleotide and the encoded				DR	DR	N-PSDB; ACH01276.	
polypeptide. The molecules of the invention demonstrate antiinflammatory,				XX	XX	New INSP052 polypeptides and nucleic acids, useful in diagnosing and	
neuroprotective, antianaemic, cytostatic and vulnerary activities and may				CC	CC	treating cell proliferative, autoimmune/inflammatory, cardiovascular,	
be useful in preparing a composition for diagnosing or treating				CC	CC	neurological, psychiatric, developmental, genetic or metabolic disorder.	
inflammatory, haematopoietic, immune, neurodegenerative or stem cell				CC	CC	Example 1; Page 68; Opp; English.	
disorders, such as aplastic anaemia or cancer, as well as for promoting				PT	PT	The present invention provides the protein and coding sequences of a	
wound healing. The molecules may also be utilised during gene therapy				XX	XX	novel human immunoglobulin domain-containing cell surface recognition	
procedures. The current sequence is that of a human therapeutic protein				CC	CC	molecule known as INSP052. The polypeptide is useful as immunoglobulin	
of the invention. The current sequence is not shown explicitly within the				CC	CC	domain-containing cell surface recognition molecule. The sequences may	
specification but can be accessed from the WIPO web-site.				CC	CC	also be used in therapy or diagnosing a disease or in the manufacture of	
Sequence 416 AA;				XX	XX	a medicament for treating a disease. The disease is a cell proliferative,	
Query Match 100.0%; Score 1962; DB 8; Length 416;				CC	CC		
Best Local Similarity 100.0%; Pred. No. 3e-134;				CC	CC		
Matches 383; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				CC	CC		

CC autoimmune/inflammatory, cardiovascular, neurological, psychiatric,
CC developmental, genetic or metabolic disorder, an infection or other
CC pathological condition. The polypeptides and nucleic acids are essential
CC to the structural integrity and homeostatic functioning of most tissues.
XX The present sequence is a polypeptide shown in the invention
SQ Sequence 418 AA;

Query Match 94.3%; Score 1850; DB 7; Length 418;
Best Local Similarity 94.5%; Pred. No. 4.2e-126;
Matches 364; Conservative 9; Mismatches 10; Indels 2; Gaps 1;

QY 1 VNITSPVRLIHGTGKALLSVQYSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 60
DB 34 VNITSPVRLIHGTGKALLSVQYSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 93

QY 61 DYDRIRLRFENGSLLSLDQLADEGTYEVEISITDDTFTGKTNLTVDPVPSRPQVLVA 120
DB 94 DYDRIRLRFENGSLLSLDQLADEGTYEVEISITDDTFTGKTNLTVDPVPSRPQVLVA 153

QY 121 STTVLELSEAFNLCSHENGKPSYTWLKDGPPLNDSRMLLSPDKVLTITRVLMEDDD 180
DB 154 STTVLELSEAFNLCSHENGKPSYTWLKDGPPLNDSRMLLSPDKVLTITRVLMEDDD 213

QY 181 LYSQSVENPISQGRSLPVKITVYRRSSLIYILSTGGIFLLVTLVTVCAKWPSPK--RKQK 238
DB 214 LYSQSVENPISQGRSLPVKITVYRRSSLIYILSTGGIFLLVTLVTVCAKWPSPK--RKQK 273

QY 239 KLEKONSLEYMDQNDRLKPRADTLPRSGEQRKNPMALYILKDKSPETENPAPEPRS 298
DB 274 KLEKONSLEYMDQNDRLKPRADTLPRSGEQRKNPMALYILKDKSPETENPAPEPRS 333

QY 299 ATECPGPGYSVPVPGSPGLPIRSARYPRSPATGRTHTSPRAPSSPGRSRA 358
DB 334 TTEPGPGYSVPVPGSPGLPIRSARYPRSPATGRTHTSPRAPSSPGRSRA 393

QY 359 SRTLRTAGVHRIREQDEAGPVEISA 383
DB 394 SRSRTAGVQRIREQDESGQVEISA 418

RESULT 7
ADQ65357
ID ADQ65357 standard; protein; 367 AA.
XX ADQ65357;
AC ADQ65357;
DT 07-OCT-2004 (first entry)
XX Novel human protein sequence #330.
DE
XX osteopathic; neuroprotective; nootropic; antiparkinsonian; cytostatic;
KW gene therapy; diagnostic marker; morbid state; osteoporosis;
KW neurological disease; Alzheimer's disease; Parkinson's disease; dementia;
KW cancer.
XX Homo sapiens.
OS
FN EPI440981-A2.
XX
PD 28-JUL-2004.
XX
PF 21-JAN-2004; 2004EP-00001196.
XX
PR 21-JAN-2003; 2003JP-00102206.
PR 09-MAY-2003; 2003JP-00131392.
XX
PA (REAS-) RES ASSOC BIOTECHNOLOGY.
XX
PI Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Iehii S;
PI Yamamoto J, Isono Y, Nagai K, Irie R;
XX
XX WPI; 2004-535376/52.

DR N-PSDB; ADQ63169.
XX
XX Novel 2495 cDNA, useful for treating osteoporosis, neurological diseases,
PT Alzheimer's diseases, Parkinson's diseases, dementia and various cancers.
XX
PS Claim 1; SEQ ID NO 2518; 2449pp; English.
XX
XX The invention relates to 2495 novel polynucleotides (I) and their encoded
CC polypeptides, sequences hybridizing to these nucleotides, sequences
CC encoding partial polypeptides and sequences having 70% or 90% identity to
CC the nucleotide and protein sequences. The nucleotides and polypeptides
CC are useful as diagnostic markers or therapeutic target for the diseases
CC or morbid states. They are also useful for treating osteoporosis,
CC neurological diseases, Alzheimer's diseases, Parkinson's diseases,
CC dementia and various cancers. This sequence corresponds to a protein
CC sequence of the invention.
XX
SQ Sequence 367 AA;

Query Match 67.2%; Score 1318.5; DB 8; Length 367;
Best Local Similarity 83.2%; Pred. No. 1.7e-87;
Matches 272; Conservative 12; Mismatches 26; Indels 17; Gaps 4;

QY 1 VNITSPVRLIHGTGKALLSVQYSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 60
DB 34 VNITSPVRLIHGTGKALLSVQYSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 93

QY 61 DYDRIRLRFENGSLLSLDQLADEGTYEVEISITDDTFTGKTNLTVDPVPSRPQVLVA 120
DB 94 DYDRIRLRFENGSLLSLDQLADEGTYEVEISITDDTFTGKTNLTVDPVPSRPQVLVA 153

QY 121 STTVLELSEAFNLCSHENGKPSYTWLKDGPPLNDSRMLLSPDKVLTITRVLMEDDD 180
DB 154 STTVLELSEAFNLCSHENGKPSYTWLKDGPPLNDSRMLLSPDKVLTITRVLMEDDD 213

QY 181 LYSQSVENPISQGRSLPVKITVYRRSSLIYILSTGGIFLLVTLVTVCAKWPSPK--RKQK 240
DB 214 LYSQSVENPISQGRSLPVKITVYRRSSLIYILSTGGIFLLVTLVTVCAKWPSPK--RKQK 273

QY 241 EKONSLEYMDQNDRLKPRADTLPRSGEQRKNPMALYI-----LKDKSPETEE 290
DB 274 EKONSLEYMDQNDRLKPRADTLPRSGEQRKNPMALYI-----LKDKSPETEE 327

QY 291 NPAPEPRS-ATECPGPGYSVPVPGSP 316
DB 328 LPSDLGASKGKEPEPASLASHSLPRR 354

RESULT 8
AAE14784
ID AAE14784 standard; protein; 298 AA.
XX AAE14784;
AC AAE14784;
XX
DT 30-OCT-2002 (first entry)
XX
XX Human immunoglobulin superfamily protein (IGSFP)-4.
DE
XX
KW Human; immunoglobulin superfamily protein-4; IGSFP-4; asthma;
KW immune system disorder; acquired immune deficiency syndrome; AIDS;
KW atherosclerosis; neurological disorder; Alzheimer's disease;
KW Parkinson's disease; developmental disorder; renal tubular acidosis;
KW anaemia; muscle disorder; cardiomyopathy; myocarditis; cancer;
KW cell proliferative disorder; arteriosclerosis; hepatitis.
XX
OS Homo sapiens.
XX
XX Key Location/Qualifiers
FH Key 1; .33
FT Peptide /label= Signal_peptide
FT Protein 34; .298
FT /note= "Mature IGSFP-4"
FT Region 43; .231

FT /note= "Antigen precursor signal immunoglobulin fold
 FT glycoprotein T cell surface transmembrane"
 FT 48..120
 FT /label= Immunoglobulin_domain
 FT 161..219
 FT /label= Immunoglobulin_domain
 FT 243..263
 FT /label= Transmembrane_domain
 XX
 PN WO200240671-A2.
 XX
 XX 23-MAY-2002.
 XX
 XX 15-NOV-2001; 2001WO-US044974.
 XX
 XX 16-NOV-2000; 2000US-0249645P.
 XX
 XX (INCYTE GENOMICS INC.
 XX
 XX Baughn MR, Lu DAM, Yue H, Elliott VS, Thangavelu K, Ramkumar J;
 PI Lu Y, Lo TP, Gururajan R, Gandhi AR, Arvizu C, Yao MG;
 PI
 XX WPI; 2002-519384/55.
 DR
 DR N-PSDB; AAD36780.
 XX
 XX Novel human immunoglobulin superfamily polypeptide, useful in diagnosis,
 PT prevention or treatment of immune system, neurological, developmental,
 FT muscle and cell proliferative disorders.
 XX
 XX
 PS Claim 1; Page 109-110; 122pp; English.
 XX
 CC The present sequence is human immunoglobulin superfamily protein (IGSFP) -
 CC 4. The IGSFP polypeptide and polynucleotide are useful for diagnosing,
 CC treating or preventing disorders associated with aberrant expression of
 CC IGSFP e.g. immune system disorders (e.g. acquired immune deficiency
 CC syndrome (AIDS), asthma, atherosclerosis, psoriasis, uveitis),
 CC neurological disorders (e.g. Alzheimer's disease, Huntington's disease,
 CC dementia, Parkinson's disease), developmental disorders (e.g. renal
 CC tubular acidosis, epilepsy, anaemia), muscle disorders (e.g.
 CC cardiomyopathy, myocarditis), or cell proliferative disorders (e.g.
 CC arteriosclerosis, cirrhosis, hepatitis, and cancer). The polypeptide and
 CC polynucleotide are also useful for assessing the effects of exogenous
 CC compounds on their expression. The polypeptide is useful in drug
 CC screening techniques, to analyse the proteome of a tissue or cell type,
 CC as elements on a microarray. The polynucleotide is useful for creating,
 CC knock-in humanised animals or transgenic animals to model human diseases,
 CC in somatic or germline gene therapy, to generate a transcript image of a
 CC tissue or cell type, for detecting differences in the chromosomal
 CC location due to translocation, inversion among normal, carrier or
 CC affected individuals, and as hybridisation probes for mapping naturally
 CC occurring genomic sequences
 XX
 SQ Sequence 298 AA;
 Query Match 66.9%; Score 1312; DB 5; Length 298;
 Best Local Similarity 100.0%; Pred. No. 3.7e-87;
 Matches 258; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 VNITSPVRLIHGTGKSAALLSVQYSTSSDRPVVKWQLKRDKPVTVQSIGTGVIGTLRP 60
 DB 34 VNITSPVRLIHGTGKSAALLSVQYSTSSDRPVVKWQLKRDKPVTVQSIGTGVIGTLRP 93
 QY 61 DYDRIRLIFENGSLLLSLDLQADSGTYEVEISITDDFTGKTNLTVDVPIRPOVLVA 120
 DB 94 DYDRIRLIFENGSLLLSLDLQADSGTYEVEISITDDFTGKTNLTVDVPIRPOVLVA 153
 QY 121 STTVLELSEAFTLNCSHENGTKPSYTWLKGKPLINDSRMLLSPDQKVLITRVLMEDDD 180
 DB 154 STTVLELSEAFTLNCSHENGTKPSYTWLKGKPLINDSRMLLSPDQKVLITRVLMEDDD 213
 QY 181 LYSWCVENPISQGRSLPVKITYRRSSLYIILSTGGIFLLVTLTVTCACWKPKRRKOKKL 240
 DB 214 LYSWCVENPISQGRSLPVKITYRRSSLYIILSTGGIFLLVTLTVTCACWKPKRRKOKKL 273

QY 241 EKONSLEYMDQNDRLKP 258
 DB 274 EKONSLEYMDQNDRLKP 291
 RESULT 9
 ADO47890
 ID ADO47890 standard; protein; 237 AA.
 XX
 AC ADO47890;
 XX
 DT 15-JUL-2004 (first entry)
 XX
 DE Human mature protein SEQ ID NO:7.
 XX
 KW human; virucide; anti-HIV; cytostatic; antiinflammatory; antiallergic;
 KW immunosuppressive; antiarteriosclerotic; hypotensive; osteopathic;
 KW antianaemic; neuroprotective; nootropic; antiparkinsonian; antiasthmatic;
 KW haemostatic; antidiabetic; cardiant; HIV; viral infection; cancer;
 KW inflammation; allergy; graft rejection; atherosclerosis; hypertension;
 KW osteoporosis; anaemia; Alzheimer's disease; Parkinson's disease; asthma;
 KW diabetes; myocardial infarction; haemophilia.
 XX
 OS Homo sapiens.
 XX
 PN WO2004007672-A2.
 XX
 PD 22-JAN-2004.
 XX
 PF 09-JUL-2003; 2003WO-US021703.
 XX
 PR 12-JUL-2002; 2002US-0395402P.
 XX
 PA (NUVE-) NUVELO INC.
 XX
 PI Rupp F, Wang J, Zhou P, Wehrman T, Wang ZW, Tang YT;
 XX WPI; 2004-122914/12.
 DR N-PSDB; ADO47888.
 XX
 PT New isolated polypeptides and polynucleotides useful in diagnostics,
 PT forensics, in preventing or treating diseases such as HIV and cancer, and
 PT as drug targets.
 XX
 PS Claim 10; SEQ ID NO 7; 205pp; English.
 XX
 CC The invention relates to novel isolated polynucleotides and polypeptides
 CC encoded by them. Also included are mutants or variants of the
 CC polynucleotides and polypeptides. A polypeptide of the invention has
 CC virucide, anti-HIV, cytostatic, antiinflammatory, antiallergic,
 CC immunosuppressive, antiarteriosclerotic, hypotensive, osteopathic,
 CC antianaemic, neuroprotective, nootropic, antiparkinsonian, antiasthmatic,
 CC haemostatic, antidiabetic, and cardiant activity. The composition and
 CC methods are useful in diagnostics, forensics, gene or chromosome mapping,
 CC identification of mutations responsible for genetic disorders or other
 CC traits, in assessing biodiversity, or in producing many other types of
 CC data and products dependent on DNA and amino acid sequences. They may
 CC also be used in preventing or treating diseases (e.g. HIV and other viral
 CC infections, cancer, inflammation, allergies, graft rejection,
 CC atherosclerosis, hypertension, osteoporosis, anaemia, Alzheimer's
 CC disease, Parkinson's disease, asthma, diabetes, myocardial infarction or
 CC haemophilia). They may also be used as targets in drug screening. The
 CC present sequence represents a polypeptide of the invention.
 XX
 SQ Sequence 237 AA;
 Query Match 60.8%; Score 1192; DB 8; Length 237;
 Best Local Similarity 100.0%; Pred. No. 1.5e-78;
 Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 VNITSPVRLIHGTGKSAALLSVQYSTSSDRPVVKWQLKRDKPVTVQSIGTGVIGTLRP 60

Db 1 VNITSPVRLIHGTGKSGALLSVQSSSTSSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 60
 Qy 61 DYDRIRLRFENGSLLSDLQADGETYEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
 Db 61 DYDRIRLRFENGSLLSDLQADGETYEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
 Qy 121 STTVLESEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLTTITRVLMEDDDD 180
 Db 121 STTVLESEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLTTITRVLMEDDDD 180
 Qy 181 LYSCHWENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLTVTCACWKPSKR 235
 Db 181 LYSCHWENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLTVTCACWKPSKR 235

RESULT 10

ADO47887
 ID ADO47887 standard; protein; 270 AA.

XX ADO47887;

XX AC

XX 15-JUL-2004 (first entry)

XX Human protein SEQ ID NO:4.

XX human; virucide; anti-HIV; cytostatic; antiinflammatory; antiallergic;
 XX immunosuppressive; antiarteriosclerotic; hypotensive; osteopathic;
 XX antianaemic; neuroprotective; nootropic; antiparkinsonian; antiasthmatic;
 XX haemostatic; antidiabetic; cardiant; HIV; viral infection; cancer;
 XX inflammation; allergy; graft rejection; atherosclerosis; hypertension;
 XX osteoporosis; anaemia; Alzheimer's disease; Parkinson's disease; asthma;
 XX diabetes; myocardial infarction; haemophilia.

XX Homo sapiens.

XX WO2004007672-A2.

XX 22-JAN-2004.

XX 09-JUL-2003; 2003WO-US021703.

XX 12-JUL-2002; 2002US-0395402P.

XX (NUVE-) NUVELO INC.

XX Rupp F, Wang J, Zhou P, Wehrman T, Wang ZW, Tang YT;

XX WPI; 2004-122914/12.

XX N-PSDB; ADO47886.

XX New isolated polypeptides and polynucleotides useful in diagnostics, PT
 forensic, in preventing or treating diseases such as HIV and cancer, and
 as drug targets.

XX Claim 10; SEQ ID NO 4; 205pp; English.

XX The invention relates to novel isolated polynucleotides and polypeptides
 CC encoded by them. Also included are mutants or variants of the
 CC polynucleotides and polypeptides. A polypeptide of the invention has
 CC virucide, anti-HIV, cytostatic, antiinflammatory, antiallergic,
 CC immunosuppressive, antiarteriosclerotic, hypotensive, osteopathic,
 CC antianaemic, neuroprotective, nootropic, antiparkinsonian, antiasthmatic,
 CC haemostatic, antidiabetic, and cardiant activity. The composition and
 CC methods are useful in diagnostics, forensics, gene or chromosome mapping,
 CC identification of mutations responsible for genetic disorders or other
 CC traits, in assessing biodiversity, or in producing many other types of
 CC data and products dependent on DNA and amino acid sequences. They may
 CC also be used in preventing or treating diseases (e.g. HIV and other viral
 CC infections, cancer, inflammation, allergies, graft rejection,
 CC atherosclerosis, hypertension, osteoporosis, anaemia, Alzheimer's
 CC disease, Parkinson's disease, asthma, diabetes, myocardial infarction or
 CC haemophilia). They may also be used as targets in drug screening. The
 CC present sequence represents a polypeptide of the invention.

XX SQ Sequence 270 AA;

Query Match 60.8%; Score 1192; DB 8; Length 270;
 Best Local Similarity 100.0%; Pred. No. 1.8e-78;
 Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTGKSGALLSVQSSSTSSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 60
 Db 34 VNITSPVRLIHGTGKSGALLSVQSSSTSSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 93

Qy 61 DYDRIRLRFENGSLLSDLQADGETYEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120

Db 94 DYDRIRLRFENGSLLSDLQADGETYEVEISITDDTFTGKTNLTVDVPISRPQVLVA 153

Qy 121 STTVLESEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLTTITRVLMEDDDD 180

Db 154 STTVLESEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLTTITRVLMEDDDD 213

Qy 181 LYSCHWENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLTVTCACWKPSKR 235

Db 214 LYSCHWENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLTVTCACWKPSKR 268

RESULT 11

ADSI1055

ID ADSI1055 standard; protein; 270 AA.

XX ADSI1055;

XX 16-DEC-2004 (first entry)

XX Human therapeutic protein - SEQ ID 1292.

XX antiinflammatory; neuroprotective; antianaemic; cytostatic; vulnery;
 KW inflammatory; haematopoiesis; immunity; neurodegenerative; stem cell;
 KW aplastic anaemia; cancer; wound healing; gene therapy.

XX Homo sapiens.

XX WO2004080148-A2.

XX 23-SEP-2004.

XX 30-SEP-2003; 2003WO-US030720.

XX 02-OCT-2002; 2002US-0416186P.

XX (NUVE-) NUVELO INC.

XX Tang YT, Asundi V, Ren F, Zhang J, Zhang J, Wehrman T, Wang Z, Ma Y;
 PI Wang D, Chen R, Zhao QA, Wang J, Ghosh M, Xue AJ, Weng G, Zhou P;

XX WPI; 2004-668857/65.

XX N-PSDB; ADSI0371.

XX New polynucleotide, useful in preparing a composition for diagnosing or
 PT treating inflammatory, neurodegenerative or stem cell disorders, e.g.,
 PT aplastic anaemia or cancer for promoting wound healing.

XX Claim 20; SEQ ID NO 1292; 718pp; English.

XX The invention relates to a novel isolated polynucleotide and the encoded
 CC polypeptide. The molecules of the invention demonstrate antiinflammatory,
 CC neuroprotective, antianaemic, cytostatic and vulnery activities and may
 CC be useful in preparing a composition for diagnosing or treating
 CC inflammatory, haematopoietic, immune, neurodegenerative or stem cell
 CC disorders, such as aplastic anaemia or cancer, as well as for promoting
 CC wound healing. The molecules may also be utilised during gene therapy
 CC procedures. The current sequence is that of a human therapeutic protein
 CC of the invention. The current sequence is not shown explicitly within the
 CC specification but can be accessed from the WIPO web-site.

SQ Sequence 270 AA;
Query Match 60.8%; Score 1192; DB 8; Length 270;
Best Local Similarity 100.0%; Pred. No. 1.8e-78;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 VNITSPVRLHGTGKSGALLSVQYSSSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 60
DB 34 VNITSPVRLHGTGKSGALLSVQYSSSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 93
QY 61 DYDRIRLRFENGSLLSLDQLADEGTVEVEISITDDTFTGKKTINLFDVPIRQPVLVA 120
DB 94 DYDRIRLRFENGSLLSLDQLADEGTVEVEISITDDTFTGKKTINLFDVPIRQPVLVA 153
QY 121 STTVLELSEAFITLNCSEHNGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDD 180
DB 154 STTVLELSEAFITLNCSEHNGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDD 213
QY 181 LYSWVENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLVTVCAWKPKSR 235
DB 214 LYSWVENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLVTVCAWKPKSR 268
RESULT 12
AAE26421
ID AAE26421 standard; protein; 224 AA.
XX AAE26421;
XX
XX 13-DEC-2002 (first entry)
XX
XX Human transmembrane protein (TMP)-7 protein.
XX
XX Human; transmembrane protein; TMP-7; developmental disorder; epilepsy;
KW prostaticitis; infertility; neurological disorder; Alzheimer's disease;
KW anaemia; stroke; cardiovascular disorder; hypertension; atherosclerosis;
KW gastrointestinal disorder; anorexia; Crohn's disease; lipid metabolism;
KW hypercholesterolaemia; hyperlipidaemia; cell proliferative disorder;
KW psoriasis; autoimmune disorder; acquired immune deficiency syndrome;
KW AIDS; cancer; gout; Grave's disease; transgenic; transgenic animal;
KW gene therapy; anti-infectivity; anticonvulsant; hypotensive; nootropic;
KW neuroprotective; cerebroprotective; antiinflammatory; cytostatic;
KW antithyroid.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
FH Domain 51..71
FT /note= "Transmembrane domain"
FT
XX
XX WO200234783-A2.
XX
XX 02-MAY-2002.
XX
XX 26-OCT-2001; 2001WO-US049670.
XX
XX 27-OCT-2000; 2000US-0244017P.
PR 22-NOV-2000; 2000US-0252855P.
PR 07-DEC-2000; 2000US-0251825P.
PR 12-DEC-2000; 2000US-0255085P.
XX
XX (INCY-) INCYTE GENOMICS INC.
XX
XX Warren BA, Xu Y, Yue H, Batra S, Burford N, Gandhi AR, Walia NK;
PI Arvizu C, Tang YT, Lu DAM, Duggan BM, Baughn MR, Lee EA, Khan FA;
PI Nguyen DB, Azimzai Y, Yao MG, Lal PG, Thangavelu K, Ramkumar J;
PI Tran B, Ding L, Au-Young J;
XX
XX WPI; 2002-463354/49.
DR N-PSDB; AAD44098.
XX
XX Novel human transmembrane proteins and polynucleotides useful for
PT diagnosing, treating or preventing infertility, anemia, hypertension,

PT anorexia, hypercholesterolemia, cancer, gout, Grave's disease.
XX
PS Claim 62; Page 132-133; 163pp; English.
XX
CC The present invention relates to novel human transmembrane proteins (TMP)
CC and polynucleotides encoding such proteins. Sequences of the invention
CC are useful for treating diseases or conditions associated with abnormal
CC expression of TMP such as disorders of reproduction (e.g. infertility,
CC prostaticitis), developmental (e.g. anaemia, epilepsy), gastrointestinal
CC (e.g. anorexia, Crohn's disease), neurological (e.g. Alzheimer's disease,
CC stroke), lipid metabolism (e.g. hypercholesterolaemia, hyperlipidaemia),
CC cardiovascular (e.g. atherosclerosis, hypertension), cell proliferative
CC (e.g. cancer, psoriasis) and autoimmune disorders (e.g. acquired immune
CC deficiency syndrome (AIDS), gout, Grave's disease). They are useful for
CC creating knockout humanised animals or transgenic animals to model human
CC disease. Sequences of the invention are also used in gene therapy. The
XX present sequence is TMP-7 protein
XX
SQ Sequence 224 AA;
Query Match 59.0%; Score 1157; DB 5; Length 224;
Best Local Similarity 100.0%; Pred. No. 4.9e-76;
Matches 224; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 160 MLLSPDQKVLITITRVLMEDDDLYSCWVENPISQGRSLPVKITVYRRSSLYIILSTGGIFL 219
DB 1 MLLSPDQKVLITITRVLMEDDDLYSCWVENPISQGRSLPVKITVYRRSSLYIILSTGGIFL 60
QY 220 LVTLVTVCAWKPKSRKQKLEKQNSLEYMDQNDRLKPEADTLPRSGEQRKNPMALYI 279
DB 61 LVTLVTVCAWKPKSRKQKLEKQNSLEYMDQNDRLKPEADTLPRSGEQRKNPMALYI 120
QY 280 LKDKDSPETEENPAPERPRATEPSPGYSVPVPGSRGCLPIRSARRYPSPARSPATG 339
DB 121 LKDKDSPETEENPAPERPRATEPSPGYSVPVPGSRGCLPIRSARRYPSPARSPATG 180
QY 340 RTHSSPPRAPSSPGRSRASRTLTAGVHIIRQDEAGPVEISA 383
DB 181 RTHSSPPRAPSSPGRSRASRTLTAGVHIIRQDEAGPVEISA 224
RESULT 13
ABG75380
ID ABG75380 standard; protein; 246 AA.
XX
XX AC ABG75380;
XX
XX 22-APR-2004 (first entry)
XX
XX INSP052 extracellular domain protein.
XX
XX INSP052; human; cell proliferation; autoimmune disease; inflammation;
KW cardiovascular disease; neurological disease; psychiatric disease;
KW developmental disease; metabolic disorder; infection;
KW immunoglobulin domain-containing cell surface recognition molecule.
XX
XX Unidentified.
OS
XX WO2003093316-A2.
FN
XX 13-NOV-2003.
PD
XX 30-APR-2003; 2003WO-GB001851.
XX
XX 30-APR-2002; 2002GB-00009884.
PR
XX (ARES-) ARES TRADING SA.
PA
XX Davids AR, Fagan RJ, Phelps CB, Power C;
PI
XX WPI; 2003-903655/82.
DR N-PSDB; ACH01279.
XX

PT New INSP052 polypeptides and nucleic acids, useful in diagnosing and
PT treating cell proliferative, autoimmune/inflammatory, cardiovascular,
XX neurological, psychiatric, developmental, genetic or metabolic disorder.
XX Claim 1; Fig 7; Opp; English.

XX The present invention provides the protein and coding sequences of a
CC novel human immunoglobulin domain-containing cell surface recognition
CC molecule known as INSP052. The polypeptide is useful as immunoglobulin
CC domain-containing cell surface recognition molecule. The sequences may
CC also be used in therapy or diagnosing a disease or in the manufacture of
CC a medicament for treating a disease. The disease is a cell proliferative,
CC autoimmune/inflammatory, cardiovascular, neurological, psychiatric,
CC pathological condition. The polypeptides and nucleic acids are essential
CC to the structural integrity and homeostatic functioning of most tissues.
CC The present sequence is a polypeptide shown in the invention

XX SQ Sequence 246 AA;

Query Match 53.3%; Score 1045; DB 7; Length 246;
Best Local Similarity 100.0%; Pred. No. 7.7e-68;
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTGKSAALLSVQSSSTSDRPVVKWQLKRDKPVTVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKSAALLSVQSSSTSDRPVVKWQLKRDKPVTVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLFFENGSLLSLDQLADEGTYVEISITDDTFTGKTKINTLVDPISRPQVLVA 120
Db 94 DYDRIRLFFENGSLLSLDQLADEGTYVEISITDDTFTGKTKINTLVDPISRPQVLVA 153
Qy 121 STTVLELSEAFNLCSHENGTKPSYTWLKDGPILLNDSRMLLSPDQKVLITRVLMEDDD 180
Db 154 STTVLELSEAFNLCSHENGTKPSYTWLKDGPILLNDSRMLLSPDQKVLITRVLMEDDD 213
Qy 181 LYSCWENPISQGRSLPVKITVYRRSS 207
Db 214 LYSCWENPISQGRSLPVKITVYRRSS 240

RESULT 14
ID ADM87341 standard; protein; 256 AA.

XX ADM87341;

XX 03-JUN-2004 (first entry)

XX Human protein SEQ ID NO:434.

XX respiratory; cytostatic; antiarthritic; antiinflammatory;
KW gastrointestinal; antibacterial; immunosuppressive; antidiabetic;
KW antirheumatic; gene therapy; molecular weight marker; chromosome marker;
KW chromosome tag; genetic fingerprinting; nutritional supplement; cancer;
KW inflammatory condition; arthritis; inflammatory bowel disease;
KW Crohn's disease; sepsis; rheumatoid arthritis; diabetes mellitus type 1;
KW graft versus host disease; human.

XX Homo sapiens.

XX WO2004009834-A2.

XX 29-JAN-2004.

XX 19-JUL-2002; 2002WO-US022858.

XX 21-JUL-2001; 2001US-0306971P.

XX 28-MAR-2002; 2002US-00112944.

XX (NUVE-) NUVELO INC.

XX Tang YT, Yang Y, Weng G, Zhang J, Ren F, Xue A, Wang J;

PI Wehrman T, Ghosh MJ, Wang D, Zhao QA, Wang Z;
XX WPI; 2004-143291/14.
DR N-PSDB; ADM87097.

XX New isolated polynucleotides and polypeptides, useful for treating, e.g.
PT cancer, lung or liver fibrosis, arthritis, inflammatory bowel disease,
PT Crohn's disease, rheumatoid arthritis, diabetes mellitus type 1 or graft
PT versus host disease.

XX Claim 20; SEQ ID NO 434; 591pp; English.

XX The present invention describes an isolated polynucleotide (I): (a)
CC comprising a nucleotide sequence selected from SEQ ID NO:1-244; or (b)
CC which encodes a polypeptide with biological activity, where the
CC polynucleotide hybridises to (I) under stringent hybridisation conditions
CC or has greater than 99% sequence identity with (I). (I) has respiratory,
CC cytosolic, antiarthritic, antiinflammatory, gastrointestinal, antirheumatic,
CC antibacterial, immunosuppressive, antidiabetic and antirheumatic
CC activities, and can be used in gene therapy. (I) can be used for
CC generating polynucleotides encoding chimeric or fusion proteins and
CC heterologous protein sequences. The polynucleotides can be used to
CC express recombinant protein for analysis, characterisation or therapeutic
CC use; as markers for tissues in which the corresponding protein is
CC preferentially expressed; as molecular weight markers on gels; as
CC chromosome markers or tags to identify chromosomes or to map related gene
CC positions; to compare with endogenous DNA sequences in patients to
CC identify potential genetic disorders; as probes to hybridise and discover
CC genes, related DNA sequences; as a source of information to derive PCR
CC primers for genetic fingerprinting; as a probe to subtract-out known
CC sequences in the process of discovering other novel polynucleotides; for
CC selecting and making oligomers for attachment to a gene chip or other
CC support, including for examination of expression patterns; to raise anti-
CC protein antibodies using DNA immunisation techniques; and as an antigen
CC to raise anti-DNA antibodies or elicit another immune response. The
CC polynucleotides and polypeptides can also be used as nutritional sources
CC or supplements, e.g. as a protein or amino acid supplement, as a carbon
CC source, as a nitrogen source or as a source of carbohydrates. The
CC polynucleotides and polypeptides can also be used treat cancer. The
CC compositions are useful for promoting better or faster closure of non-
CC healing wounds, for the generation and regeneration of tissues, for gut
CC protection or regeneration and treatment of lung or liver fibrosis,
CC reperfusion injury in various tissues, and conditions resulting from
CC systemic cytokine damage. The compositions can also be used to treat
CC inflammatory conditions (e.g. arthritis, inflammatory bowel disease or
CC Crohn's disease), sepsis, rheumatoid arthritis, diabetes mellitus type 1
CC or graft versus host disease. The present sequence represents a novel
CC human polypeptide sequence from the present invention. N.B. The sequences
CC for this patent were obtained from the USPTO web site from an equivalent
CC US patent US20040048249A1.

XX SQ Sequence 256 AA;

Query Match 52.4%; Score 1029; DB 8; Length 256;
Best Local Similarity 96.2%; Pred. No. 1.2e-66;
Matches 203; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTGKSAALLSVQSSSTSDRPVVKWQLKRDKPVTVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKSAALLSVQSSSTSDRPVVKWQLKRDKPVTVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLFFENGSLLSLDQLADEGTYVEISITDDTFTGKTKINTLVDPISRPQVLVA 120
Db 94 DYDRIRLFFENGSLLSLDQLADEGTYVEISITDDTFTGKTKINTLVDPISRPQVLVA 153
Qy 121 STTVLELSEAFNLCSHENGTKPSYTWLKDGPILLNDSRMLLSPDQKVLITRVLMEDDD 180
Db 154 STTVLELSEAFNLCSHENGTKPSYTWLKDGPILLNDSRMLLSPDQKVLITRVLMEDDD 213
Qy 181 LYSCWENPISQGRSLPVKITVYRRSSLYII 211
Db 214 LYSCWENPISQGRSLPVKITVYRRSSLYII 244

Search completed: July 26, 2005, 16:07:36
Job time : 110.756 secs

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RESULT 15
AAM24238
ID AAM24238 standard; protein; 256 AA.
XX
AC AAM24238;
XX
DT 12-OCT-2001 (first entry)
XX
DE Human EST encoded protein SEQ ID NO: 1763.
XX
KW Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;
KW tomato; monkey; dog; sea urchin; expressed sequence tag; EST;
KW diagnostics; forensic test; gene mapping; genetic disorder; biodiversity;
KW gene therapy; nutrition.
XX
OS Homo sapiens.
XX
PN WO200154477-A2.
XX
PD 02-AUG-2001.
XX
PF 25-JAN-2001; 2001WO-US002687.
XX
PR 25-JAN-2000; 2000US-00491404.
PR 17-JUL-2000; 2000US-00617746.
PR 03-AUG-2000; 2000US-00631451.
PR 15-SEP-2000; 2000US-00663870.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;
PI Cao Y, Drmanac RA, Zhang J, Werhman T;
XX
DR WPI; 2001-476164/51.
DR N-ESDB; AAH98897.
XX
PT Isolated polypeptide for treatment of diseases, diagnostics, raising
PT antibodies and research use.
XX
PS Claim 20; Page 1159-1160; 1275pp; English.
XX
CC The present invention provides the protein and coding sequences of novel
CC proteins from a variety of organisms, including human, dog, cat, horse,
CC cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea
CC urchin and tomato. These were derived from expressed sequence tags (ESTs)
CC from the organism of interest. They can be used in diagnostics,
CC forensics, gene mapping, identification of mutations, to assess
CC biodiversity and for nutritional purposes. The present sequence is a
CC protein of the invention
XX
SQ Sequence 256 AA;
Query Match 51.9%; Score 1018; DB 4; Length 256;
Best Local Similarity 96.6%; Pred. No. 7.5e-66;
Matches 201; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
Qy 1 VNITSPVRLIHGTGKSMALLSVQYSSSTSSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKSMALLSVQYSSSTSSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLFPENGSLLLSLQLADEGTYEVEISITDDTFTGKTNLTVDVPISRPQVIVA 120
Db 94 DYDRIRLFPENGSLLLSLQLADEGTYEVEISITDDTFTGKTNLTVDVPISRPQVIVA 153
Qy 121 STTVLELSEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDD 180
Db 154 STTVLELSEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDD 213
Qy 181 LYSCHVENPISQGRSLPVKITVYRRSSL 208
Db 214 LYSCHVENPISQGRSLPVKITVYRRSSL 241
```

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OM protein - protein search, using sw model

Run on: July 26, 2005, 15:54:21 ; Search time 58.6445 seconds
(without alignments)
1365.166 Million cell updates/sec

Title: US-10-706-691-22
Perfect score: 1045
Sequence: 1 VNITSPVRLIHGTGKSALL.....NPISQGRSLPVKITVRRSS 207

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A Geneseq_16Dec04:.*
1: geneseqp1980s:.*
2: geneseqp1990s:.*
3: geneseqp2000s:.*
4: geneseqp2001s:.*
5: geneseqp2002s:.*
6: geneseqp2003as:.*
7: geneseqp2003bs:.*
8: geneseqp2004s:.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1045	100.0	237	8	ADO47890 Human mat
2	1045	100.0	246	7	Abg75380 INSP052 e
3	1045	100.0	270	8	ADO47887 Human pro
4	1045	100.0	270	8	ADSL1055 Human pro
5	1045	100.0	298	5	AAE14784 Human imm
6	1045	100.0	383	8	ADO47895 Human mat
7	1045	100.0	416	7	ABG75379 Predicted
8	1045	100.0	416	7	ABG75377 Human INS
9	1045	100.0	416	8	ADO47892 Human pro
10	1045	100.0	416	8	ADSL1056 Human the
11	1032	98.8	367	8	ADQ65357 Novel hum
12	1029	98.5	418	7	ABG75378 Murine IN
13	1014	97.0	256	4	AAE2438 Human EST
14	1014	97.0	256	8	ADM87341 Human pro
15	1014	97.0	256	8	ADM87787 Human EST
16	1014	97.0	256	8	ADSL12269 Human the
17	1014	97.0	256	8	ADSL12268 Human the
18	548	52.4	114	7	ABG75371 Human INS
19	484	46.3	188	7	ABG75372 Human INS
20	268	25.6	338	4	AAE78339 Human pro
21	268	25.6	450	2	AAE13398 Amino aci
22	268	25.6	450	3	ADC78632 Human PRO
23	268	25.6	450	4	AAE80266 Human PRO
24	268	25.6	450	4	AAU12360 Human PRO
25	268	25.6	450	5	AAU81958 Human PRO

26	268	25.6	450	6	ABU71644	Human PRO
27	268	25.6	450	6	ABO17804	Novel hum
28	268	25.6	450	6	ABU71499	Human PRO
29	268	25.6	450	6	ABU81058	Human PRO
30	268	25.6	450	6	ABU71945	Human sec
31	268	25.6	450	6	ABO01828	Novel hum
32	268	25.6	450	6	ABU66758	Human PRO
33	268	25.6	450	6	ABU54401	Human sec
34	268	25.6	450	6	ABO47416	Human sec
35	268	25.6	450	6	ABU59839	Novel sec
36	268	25.6	450	6	ABO25029	Human sec
37	268	25.6	450	6	ABU64553	Human sec
38	268	25.6	450	6	ABU67399	Human sec
39	268	25.6	450	6	ABO14919	Human sec
40	268	25.6	450	6	ABU67034	Human sec
41	268	25.6	450	6	ABU69676	Novel hum
42	268	25.6	450	6	ABO14858	Human sec
43	268	25.6	450	6	ADA45897	Novel hum
44	268	25.6	450	6	ADA76328	Human PRO
45	268	25.6	450	6	ADB29524	Human sec

ALIGNMENTS

RESULT 1
ADO47890
ID ADO47890 standard; protein; 237 AA.

XX ADO47890;

DT 15-JUL-2004 (first entry)

DE Human mature protein SEQ ID NO:7.

XX human; virucide; anti-HIV; cytostatic; antiinflammatory; antiallergic;
KW immunosuppressive; antiarteriosclerotic; hypotensive; osteopathic;
KW antianaemic; neuroprotective; nootropic; antiparkinsonian; antiasthmatic;
KW haemostatic; antidiabetic; cardiant; HIV; viral infection; cancer;
KW inflammation; allergy; graft rejection; atherosclerosis; hypertension;
KW osteoporosis; anaemia; Alzheimer's disease; Parkinson's disease; asthma;
KW diabetes; myocardial infarction; haemophilia.

XX Homo sapiens.

XX WO2004007672-A2.

XX 22-JAN-2004.

XX 09-JUL-2003; 2003WO-US021703.

XX 12-JUL-2002; 2002US-0395402P.

XX (NUVE-) NUVELO INC.

XX Rupp F, Wang J, Zhou P, Wehrman T, Wang ZW, Tang YT;

XX WPI; 2004-122914/12.

XX N-PSDB; ADO47888.

XX New isolated polypeptides and polynucleotides useful in diagnostics, forensics, in preventing or treating diseases such as HIV and cancer, and as drug targets.

XX Claim 10; SEQ ID NO 7; 205pp; English.

XX The invention relates to novel isolated polynucleotides and polypeptides encoded by them. Also included are mutants or variants of the polynucleotides and polypeptides. A polypeptide of the invention has virucide, anti-HIV, cytostatic, antiinflammatory, antiallergic, immunosuppressive, antiarteriosclerotic, hypotensive, osteopathic, antianaemic, neuroprotective, nootropic, antiparkinsonian, antiasthmatic, haemostatic, antidiabetic, and cardiant activity. The composition and

CC methods are useful in diagnostics, forensics, gene or chromosome mapping,
CC identification of mutations responsible for genetic disorders or other
CC traits, in assessing biodiversity, or in producing many other types of
CC data and products dependent on DNA and amino acid sequences. They may
CC also be used in preventing or treating diseases (e.g. HIV and other viral
CC infections, cancer, inflammation, allergies, graft rejection,
CC atherosclerosis, hypertension, osteoporosis, anaemia, Alzheimer's
CC disease, Parkinson's disease, asthma, diabetes, myocardial infarction or
CC haemophilia). They may also be used as targets in drug screening. The
CC present sequence represents a polypeptide of the invention.
XX
SQ Sequence 237 AA;

Query Match 100.0%; Score 1045; DB 8; Length 237;
Best Local Similarity 100.0%; Pred. No. 8.4e-83;
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 VNITSPVRLIHGTGKSGALLSVQYSSSTSDRPVVKWQKRDKPTVVVQSIGTEVIGTLRP 60
Db 1 VNITSPVRLIHGTGKSGALLSVQYSSSTSDRPVVKWQKRDKPTVVVQSIGTEVIGTLRP 60
Qy 61 DYDRIRLFGNSLLSDQLADEGTYEVEISITDDTFTGKKTINLTVDVPISRQVLVA 120
Db 61 DYDRIRLFGNSLLSDQLADEGTYEVEISITDDTFTGKKTINLTVDVPISRQVLVA 120
Qy 121 STTVLEISEAFTLNCSEHGTPKSYTWLKDGPILLNDSRMLLSPDQKVLITITRVLMEDDD 180
Db 121 STTVLEISEAFTLNCSEHGTPKSYTWLKDGPILLNDSRMLLSPDQKVLITITRVLMEDDD 180
Qy 181 LYSWENPISQGRSLPVKITVYRRSS 207
Db 181 LYSWENPISQGRSLPVKITVYRRSS 207

RESULT 2
ID ABG75380 standard; protein; 246 AA.
XX
AC ABG75380;
XX
DT 22-APR-2004 (first entry)
XX
DE INSP052 extracellular domain protein.
XX
KW INSP052; human; cell proliferation; autoimmune disease; inflammation;
KW cardiovascular disease; neurological disease; psychiatric disease;
KW developmental disease; metabolic disorder; infection;
KW immunoglobulin domain-containing cell surface recognition molecule.
XX
OS Unidentified.
XX
FN WO2003093316-A2.
XX
PD 13-NOV-2003.
XX
PF 30-APR-2003; 2003WO-GB001851.
XX
PR 30-APR-2002; 2002GB-00009884.
XX
PA (ARES-) ARES TRADING SA.
XX
PI Davids AR, Fagan RJ, Phelps CB, Power C;
XX
DR WPI; 2003-903655/82.
DR N-PSDB; ACH01279.
XX
PT New INSP052 polypeptides and nucleic acids, useful in diagnosing and
PT treating cell proliferative, autoimmune/inflammatory, cardiovascular,
XX neurological, psychiatric, developmental, genetic or metabolic disorder.
XX Claim 1; Fig 7; Opp; English.
XX
XX The present invention provides the protein and coding sequences of a

CC novel human immunoglobulin domain-containing cell surface recognition
CC molecule known as INSP052. The polypeptide is useful as immunoglobulin
CC domain-containing cell surface recognition molecule. The sequences may
CC also be used in therapy or diagnosing a disease or in the manufacture of
CC a medicament for treating a disease. The disease is a cell proliferative,
CC autoimmune/inflammatory, cardiovascular, neurological, psychiatric,
CC developmental, genetic or metabolic disorder, an infection or other
CC pathological condition. The polypeptides and nucleic acids are essential
CC to the structural integrity and homeostatic functioning of most tissues.
CC The present sequence is a polypeptide shown in the invention
XX
SQ Sequence 246 AA;

Query Match 100.0%; Score 1045; DB 7; Length 246;
Best Local Similarity 100.0%; Pred. No. 8.8e-83;
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 VNITSPVRLIHGTGKSGALLSVQYSSSTSDRPVVKWQKRDKPTVVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKSGALLSVQYSSSTSDRPVVKWQKRDKPTVVVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLFGNSLLSDQLADEGTYEVEISITDDTFTGKKTINLTVDVPISRQVLVA 120
Db 94 DYDRIRLFGNSLLSDQLADEGTYEVEISITDDTFTGKKTINLTVDVPISRQVLVA 153
Qy 121 STTVLEISEAFTLNCSEHGTPKSYTWLKDGPILLNDSRMLLSPDQKVLITITRVLMEDDD 180
Db 154 STTVLEISEAFTLNCSEHGTPKSYTWLKDGPILLNDSRMLLSPDQKVLITITRVLMEDDD 213
Qy 181 LYSWENPISQGRSLPVKITVYRRSS 207
Db 214 LYSWENPISQGRSLPVKITVYRRSS 240

RESULT 3
ID ADO47887 standard; protein; 270 AA.
XX
AC ADO47887;
XX
DT 15-JUL-2004 (first entry)
XX
DE Human protein SEQ ID NO:4.
XX
KW human; virucide; anti-HIV; cytostatic; antiinflammatory; antiallergic;
KW immunosuppressive; antiarteriosclerotic; hypotensive; osteopathic;
KW antianaemic; neuroprotective; nootropic; antiparkinsonian; antiasthmatic;
KW haemostatic; antidiabetic; cardiant; HIV; viral infection; cancer;
KW inflammation; allergy; graft rejection; atherosclerosis; hypertension;
KW osteoporosis; anaemia; Alzheimer's disease; Parkinson's disease; asthma;
KW diabetes; myocardial infarction; haemophilia.
XX
OS Homo sapiens.
XX
FN WO2004007672-A2.
XX
PD 22-JAN-2004.
XX
PF 09-JUL-2003; 2003WO-US021703.
XX
PR 12-JUL-2002; 2002US-0395402P.
XX
PA (NUVE-) NUVELO INC.
XX
PI Rupp F, Wang J, Zhou P, Wehrman T, Wang ZW, Tang YT;
XX
DR WPI; 2004-122914/12.
DR N-PSDB; ADO47886.
XX
PT New isolated polypeptides and polynucleotides useful in diagnostics,
PT forensics, in preventing or treating diseases such as HIV and cancer, and
PT as drug targets.
XX

PS Claim 10; SEQ ID NO 4; 205pp; English.

XX The invention relates to novel isolated polynucleotides and polypeptides

CC encoded by them. Also included are mutants or variants of the

CC polynucleotides and polypeptides. A polypeptide of the invention has

CC virucide, anti-HIV, cytostatic, antiinflammatory, antiallergic,

CC immunosuppressive, antiarteriosclerotic, hypotensive, osteopathic,

CC antianaemic, neuroprotective, nootropic, antiparkinsonian, antiasthmatic,

CC haemostatic, antidiabetic, and cardiant activity. The composition and

CC methods are useful in diagnostics, forensics, gene or chromosome mapping,

CC identification of mutations responsible for genetic disorders or other

CC traits, in assessing biodiversity, or in producing many other types of

CC data and products dependent on DNA and amino acid sequences. They may

CC also be used in preventing or treating diseases (e.g. HIV and other viral

CC infections, cancer, inflammation, allergies, graft rejection,

CC atherosclerosis, hypertension, osteoporosis, anaemia, Alzheimer's

CC disease, Parkinson's disease, asthma, diabetes, myocardial infarction or

CC haemophilia). They may also be used as targets in drug screening. The

CC present sequence represents a polypeptide of the invention.

XX

SQ Sequence 270 AA;

Query Match 100.0%; Score 1045; DB 8; Length 270;

Best Local Similarity 100.0%; Pred. No. 9.9e-83;

Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTGKSAALLSVQYSSSTSSDRPVVKWQKRDKPVTTVQSIGTEVIGTLRP 60

Db 34 VNITSPVRLIHGTGKSAALLSVQYSSSTSSDRPVVKWQKRDKPVTTVQSIGTEVIGTLRP 93

Qy 61 DYDRIRLRFENGSLLSLDQLADEGTYEVEISITDDTFTGKTKINLTVDVPISRPQVLVA 120

Db 94 DYDRIRLRFENGSLLSLDQLADEGTYEVEISITDDTFTGKTKINLTVDVPISRPQVLVA 153

Qy 121 STTVLELSEAFTLNCSHENGTKPSYTWLKGKPLNDSRMLLSPDQKVLTTITRVLMEDEDD 180

Db 154 STTVLELSEAFTLNCSHENGTKPSYTWLKGKPLNDSRMLLSPDQKVLTTITRVLMEDEDD 213

Qy 181 LYSCWVENPISQGRSLPVKITVYRRSS 207

Db 214 LYSCWVENPISQGRSLPVKITVYRRSS 240

RESULT 4

ADSI1055

ID ADSI1055 standard; protein; 270 AA.

XX

AC ADSI1055;

XX

DT 16-DEC-2004 (first entry)

XX

DE Human therapeutic protein - SEQ ID 1292.

XX

KW antiinflammatory; neuroprotective; antianaemic; cytostatic; vulnerary;

KW inflammatory; haematopoiesis; immunity; neurodegenerative; stem cell;

KW aplastic anaemia; cancer; wound healing; gene therapy.

XX

OS Homo sapiens.

XX

FN WO2004080148-A2.

XX

PD 23-SEP-2004.

XX

PF 30-SEP-2003; 2003WO-US030720.

XX

PR 02-OCT-2002; 2002US-0416186P.

XX

XX (NUVE-) NUVELO INC.

XX

XX Tang YT, Asundi V, Ren F, Zhang J, Wehrman T, Wang Z, Ma Y;

PI Wang D, Chen R, Zhao QA, Wang J, Ghosh M, Xue AJ, Weng G, Zhou P;

XX

XX WPI; 2004-668857/65.

DR

DR N-PSDB; ADS10371.

XX

PT New polynucleotide, useful in preparing a composition for diagnosing or

PT treating inflammatory, neurodegenerative or stem cell disorders, e.g.,

PT aplastic anaemia or cancer for promoting wound healing.

XX

PS Claim 20; SEQ ID NO 1292; 718pp; English.

XX

CC The invention relates to a novel isolated polynucleotide and the encoded

CC polypeptide. The molecules of the invention demonstrate antiinflammatory,

CC neuroprotective, antianaemic, cytostatic and vulnerary activities and may

CC be useful in preparing a composition for diagnosing or treating

CC inflammatory, haematopoietic, immune, neurodegenerative or stem cell

CC disorders, such as aplastic anaemia or cancer, as well as for promoting

CC wound healing. The molecules may also be utilised during gene therapy

CC procedures. The current sequence is that of a human therapeutic protein

CC of the invention. The current sequence is not shown explicitly within the

CC specification but can be accessed from the WIFO web-site.

XX

SQ Sequence 270 AA;

Query Match 100.0%; Score 1045; DB 8; Length 270;

Best Local Similarity 100.0%; Pred. No. 9.9e-83;

Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTGKSAALLSVQYSSSTSSDRPVVKWQKRDKPVTTVQSIGTEVIGTLRP 60

Db 34 VNITSPVRLIHGTGKSAALLSVQYSSSTSSDRPVVKWQKRDKPVTTVQSIGTEVIGTLRP 93

Qy 61 DYDRIRLRFENGSLLSLDQLADEGTYEVEISITDDTFTGKTKINLTVDVPISRPQVLVA 120

Db 94 DYDRIRLRFENGSLLSLDQLADEGTYEVEISITDDTFTGKTKINLTVDVPISRPQVLVA 153

Qy 121 STTVLELSEAFTLNCSHENGTKPSYTWLKGKPLNDSRMLLSPDQKVLTTITRVLMEDEDD 180

Db 154 STTVLELSEAFTLNCSHENGTKPSYTWLKGKPLNDSRMLLSPDQKVLTTITRVLMEDEDD 213

Qy 181 LYSCWVENPISQGRSLPVKITVYRRSS 207

Db 214 LYSCWVENPISQGRSLPVKITVYRRSS 240

RESULT 5

AAE14784

ID AAE14784 standard; protein; 298 AA.

XX

AC AAE14784;

XX

DT 30-OCT-2002 (first entry)

XX

DE Human immunoglobulin superfamily protein (IGSFP)-4.

XX

KW Human; immunoglobulin superfamily protein-4; IGSFP-4; asthma;

KW immune system disorder; acquired immune deficiency syndrome; AIDS;

KW atherosclerosis; neurological disorder; Alzheimer's disease;

KW Parkinson's disease; developmental disorder; renal tubular acidosis;

KW anaemia; muscle disorder; cardiomyopathy; myocarditis; cancer;

KW cell proliferative disorder; arteriosclerosis; hepatitis.

XX

OS Homo sapiens.

XX

FN Homo sapiens.

XX

PH Key Location/Qualifiers

FT Peptide 1..33

FT Protein /label= Signal_peptide

FT /note= "Mature IGSFP-4"

FT Region 43..231

FT /note= "Antigen precursor signal immunoglobulin fold

FT glycoprotein T cell surface transmembrane"

FT Domain 48..120

FT /label= Immunoglobulin_domain

FT Domain 161..219

FT /label= Immunoglobulin_domain

Domain	243. .263	
FT	FT	/label= Transmembrane_domain
XX	XX	
PN	PN	WO200240671-A2.
XX	XX	
PD	PD	23-MAY-2002.
XX	XX	
XX	XX	15-NOV-2001; 2001WO-US044974.
PF	PF	
XX	XX	16-NOV-2000; 2000US-0249645P.
PR	PR	
XX	XX	(INCY-) INCYTE GENOMICS INC.
PA	PA	
XX	XX	Baughn MR, Lu DAM, Yue H, Elliott VS, Thangavelu K, Rankumar J; Lu Y, Lo TP, Gururajan R, Gandhi AR, Arvizu C, Yao MG; WPI; 2002-519384/55. N-PSDB; AAD36780.
PI	PI	
XX	XX	
DR	DR	Novel human immunoglobulin superfamily polypeptide, useful in diagnosis, prevention or treatment of immune system, neurological, developmental, muscle and cell proliferative disorders.
PT	PT	
XX	XX	Claim 1; Page 109-110; 122pp; English.
XX	XX	
XX	XX	The present sequence is human immunoglobulin superfamily protein (IGSFP) - 4. The IGSFP polypeptide and polynucleotide are useful for diagnosing, treating or preventing disorders associated with aberrant expression of IGSFP e.g. immune system disorders (e.g. acquired immune deficiency syndrome (AIDS), asthma, atherosclerosis, psoriasis, uveitis), neurological disorders (e.g. Alzheimer's disease, Huntington's disease, dementia, Parkinson's disease), developmental disorders (e.g. renal tubular acidosis, epilepsy, anaemia), muscle disorders (e.g. cardiomyopathy, myocardiitis), or cell proliferative disorders (e.g. arteriosclerosis, cirrhosis, hepatitis, and cancer). The polypeptide and polynucleotide are also useful for assessing the effects of exogenous compounds on their expression. The polypeptide is useful in drug screening techniques, to analyse the proteome of a tissue or cell type, as elements on a microarray. The polynucleotide is useful for creating knock-in humanised animals or transgenic animals to model human diseases, in somatic or germline gene therapy, to generate a transcript image of a tissue or cell type, for detecting differences in the chromosomal location due to translocation, inversion among normal, carrier or affected individuals, and as hybridisation probes for mapping naturally occurring genomic sequences
XX	XX	
SQ	SQ	Sequence 298 AA;
		Query Match 100.0%; Score 1045; DB 5; Length 298;
		Best Local Similarity 100.0%; Pred. No. 1.1e-82;
		Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy	1	VNITSPVRLIHGTGKALLSVQYSTSSDRPVWKQKRDKPVTWVQSIGTEVIGTLRP 60
Db	34	VNITSPVRLIHGTGKALLSVQYSTSSDRPVWKQKRDKPVTWVQSIGTEVIGTLRP 93
Qy	61	DYDRIRLFENGSLILSDIQLADEGTYEVEISITDDTFTGKNTINLTVDPISRPQVLVA 120
Db	94	DYDRIRLFENGSLILSDIQLADEGTYEVEISITDDTFTGKNTINLTVDPISRPQVLVA 153
Qy	121	STTVLELSEAFILNCSENGTKPSYTWLKGKPLNDSRMLLSPDQKVLTTITRVLMEDDD 180
Db	154	STTVLELSEAFILNCSENGTKPSYTWLKGKPLNDSRMLLSPDQKVLTTITRVLMEDDD 213
Qy	181	LYSCWENPISQGRSLPVKITVYRRSS 207
Db	214	LYSCWENPISQGRSLPVKITVYRRSS 240
RESULT 6		
ADO47895		
ID	ADO47895	standard; protein; 383 AA.
XX	XX	


```

QY 181 LYSWMENPISQGRSLPVKITVYRRSS 207
DB 214 LYSWMENPISQGRSLPVKITVYRRSS 240

RESULT 9
AD047892
ID ADO47892 standard; protein; 416 AA.
XX
AC ADO47892;
XX
DT 15-JUL-2004 (first entry)
XX
DE Human protein SEQ ID NO:9.
XX
KW human; virucide; anti-HIV; cytostatic; antiinflammatory; antiallergic;
KW immunosuppressive; antiarteriosclerotic; hypotensive; osteopathic;
KW antianaemic; neuroprotective; nootropic; antiparkinsonian; antiasthmatic;
KW haemostatic; antidiabetic; cardiant; HIV; viral infection; cancer;
KW inflammation; allergy; graft rejection; atherosclerosis; hypertension;
KW osteoporosis; anaemia; Alzheimer's disease; Parkinson's disease; asthma;
KW diabetes; myocardial infarction; haemophilia.
XX
OS Homo sapiens.
XX
XX WO2004007672-A2.
XX
PD 22-JAN-2004.
XX
XX 09-JUL-2003; 2003WO-US021703.
XX
XX 12-JUL-2002; 2002US-0395402P.
XX
XX (NUVE-) NUVELO INC.
XX
XX Rupp F, Wang J, Zhou P, Wehrman T, Wang ZW, Tang YT;
XX WPI: 2004-122914/12.
XX N-PSDB; ADO47891.
XX
XX New isolated polypeptides and polynucleotides useful in diagnostics,
XX PT forensics, in preventing or treating diseases such as HIV and cancer, and
XX PT as drug targets.
XX
XX Claim 10; SEQ ID NO 9; 205pp; English.
XX
XX The invention relates to novel isolated polynucleotides and polypeptides
XX CC encoded by them. Also included are mutants or variants of the
XX CC polynucleotides and polypeptides. A polypeptide of the invention has
XX CC virucide, anti-HIV, cytostatic, antiinflammatory, antiallergic,
XX CC immunosuppressive, antiarteriosclerotic, hypotensive, osteopathic,
XX CC antianaemic, neuroprotective, nootropic, antiparkinsonian, antiasthmatic,
XX CC haemostatic, antidiabetic, and cardiant activity. The composition and
XX CC methods are useful in diagnostics, forensics, gene or chromosome mapping,
XX CC identification of mutations responsible for genetic disorders or other
XX CC traits, in assessing biodiversity, or in producing many other types of
XX CC data and products dependent on DNA and amino acid sequences. They may
XX CC also be used in preventing or treating diseases (e.g. HIV and other viral
XX CC infections, cancer, inflammation, allergies, graft rejection,
XX CC atherosclerosis, hypertension, osteoporosis, anaemia, Alzheimer's
XX CC disease, Parkinson's disease, asthma, diabetes, myocardial infarction or
XX CC haemophilia). They may also be used as targets in drug screening. The
XX CC present sequence represents a polypeptide of the invention.
XX
SQ Sequence 416 AA;

Query Match 100.0%; Score 1045; DB 8; Length 416;
Best Local Similarity 100.0%; Pred. No. 1.7e-82;
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VNITSPVRLIHGTGKSAALLSVQSSSTSDRPVVKQLKRDKPVTVVQSIGTEVIGTLRP 60
DB 34 VNITSPVRLIHGTGKSAALLSVQSSSTSDRPVVKQLKRDKPVTVVQSIGTEVIGTLRP 93

us-10-706-691-22.rag Page 6

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Db	94	DSRDRIRLFENGSLLLSDLOLADSGTVEVEISITDDTFGKTKINLTVDVPSRFPQVLVA	153
Qy	121	STTVLELSEAFTLNCSHENGTKPSYTWLKQKGPLNDSRMLLSPDKVLTITRVLMEDDD	180
Db	154	STTVLELSEAFTLNCSHENGTKPSYTWLKQKGPLNDSRMLLSPDKVLTITRVLMEDDD	213
Qy	181	LYSCWENPISQGRSLPVKITVYRRSS	207
Db	214	LYSCWENPISQGRSLPVKITVYRRSS	240

RESULT 12	
ABG75378	
ID	ABG75378 standard; protein; 418 AA.
XX	
AC	ABG75378;
XX	
DT	22-APR-2004 (first entry)
XX	
DE	Murine INSP052 complete protein.
XX	
KW	INSP052; human; cell proliferation; autoimmune disease; inflammation;
KW	cardiovascular disease; neurological disease; psychiatric disease;
KW	developmental disease; metabolic disorder; infection;
KW	immunoglobulin domain-containing cell surface recognition molecule.
XX	
OS	Mus sp.

PI Davids AR, Fagan RJ, Phelps CB, Power C;
XX
XX WPI; 2003-903655/82.
DR
DR N-PSDB; ACH01276.
XX
XX
XX PT Treating cell proliferative, autoimmune/inflammatory, cardiovascular,
PT neurological, psychiatric, developmental, genetic or metabolic disorder.
XX
XX Example 1; Page 68; Opp; English.
XX
XX The present invention provides the protein and coding sequences of a
CC novel human immunoglobulin domain-containing cell surface recognition
CC molecule known as INSP052. The polypeptide is useful as immunoglobulin
CC domain-containing cell surface recognition molecule. The sequences may
CC also be used in therapy or diagnosing a disease or in the manufacture of
CC a medicament for treating a disease. The disease is a cell proliferative,
CC autoimmune/inflammatory cardiovascular, neurological, psychiatric,
CC developmental, genetic or metabolic disorder, an infection or other
CC pathological condition. The polypeptides and nucleic acids are essential
CC to the structural integrity and homeostatic functioning of most tissues.
CC The present sequence is a polypeptide shown in the invention

	Query Match	98.5%	Score 1029	DB 7	Length 418
	Best Local Similarity	98.6%	Pred. No. 4.3e-81		
	Matches 204	Conservative	2	Mismatches 1	Indels 0
QY	1	VNITTSVRLTHGVGKSALLSVQYSSTSSDRPVVVKWLKRDKPVTVVQSGISGTEVIGTLRP	60		
Db	34	VNITTSVRLTHGVGKSALLSVQYSSTSSDRPVVVKWLKRDKPVTVVQSGISGTEVIGTLRP	93		
QY	61	DYDRIRLFPENGSLLSLDLQADEGTYEVEISITDDTFTEGKTNLTVDVPSRQVILVA	120		

Db	94	DYDRIRLFFENGSLLSLDQLADEGTYEVEISITDDTFTGKTNLTVDVPISRPQVLVA	153
Qy	121	STTVLESEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDD	180
Db	154	STTVLESEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDD	213
Qy	181	LYSCMVENPISQGRSLPVKITVYRRSS	207
Db	214	LYSCVVENPISQVRSPLPVKITVYRRSS	240
RESULT 13			
AAM24238			
ID	AAM24238 standard; protein; 256 AA.		
XX			
AC	AAM24238;		
XX			
DT	12-OCT-2001 (first entry)		
XX			
DE	Human EST encoded protein SEQ ID NO: 1763.		
XX			
KW	Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;		
KW	tomato; monkey; dog; sea urchin; expressed sequence tag; EST;		
KW	diagnostics; forensic test; gene mapping; genetic disorder; biodiversity;		
KW	gene therapy; nutrition.		
OS	Homo sapiens.		
XX			
PN	W0200154477-A2.		
XX			
PD	02-AUG-2001.		
XX			
FF	25-JAN-2001; 2001WO-US002687.		
XX			
PR	25-JAN-2000; 2000US-00491404.		
PR	17-JUL-2000; 2000US-00617746.		
PR	03-AUG-2000; 2000US-00631451.		
PR	15-SEP-2000; 2000US-00663870.		
XX			
PA	(HYSE-) HYSEQ INC.		
XX			
PI	Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;		
PI	Cao Y, Drmanac RA, Zhang J, Werhman T;		
XX			
XX	WPI; 2001-476164/51.		
DR	N-PSDB; AAH98897.		
XX			
PT	Isolated polypeptide for treatment of diseases, diagnostics, raising		
PT	antibodies and research use.		
XX			
PS	Claim 20; Page 1159-1160; 1275pp; English.		
XX			
CC	The present invention provides the protein and coding sequences of novel		
CC	proteins from a variety of organisms, including human, dog, cat, horse,		
CC	cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea		
CC	urchin and tomato. These were derived from expressed sequence tags (ESTs)		
CC	from the organism of interest. They can be used in diagnostics,		
CC	forensics, gene mapping, identification of mutations, to assess		
CC	biodiversity and for nutritional purposes. The present sequence is a		
CC	protein of the invention		
XX			
SQ	Sequence 256 AA;		
Query Match 97.0%; Score 1014; DB 4; Length 256;			
Best Local Similarity 96.6%; Pred. No. 4.6E-80;			
Matches 200; Conservative 4; Mismatches 3; Indels 0; Gaps 0;			
Qy	1	VNITSPVRLIHGTGKSAALLSQVSSSTSSDRPVVKWQLKRDPKVTWQSIGTEVIGTLRP	60
Db	34	VNITSPVRLIHGTGKSAALLSQVSSSTSSDRPVVKWQLKRDPKVTWQSIGTEVIGTLRP	93
Qy	61	DYDRIRLFFENGSLLSLDQLADEGTYEVEISITDDTFTGKTNLTVDVPISRPQVLVA	120

Db	94	DYDRIRLFFENGSLLSLDQLADEGTYEVEISITDDTFTGKTNLTVDVPISRPQVLVA	153
Qy	121	STTVLESEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDD	180
Db	154	STTVLESEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDD	213
Qy	181	LYSCMVENPISQGRSLPVKITVYRRSS	207
Db	214	LYSCVVENPISQVRSPLPVKITVYRRSS	240
RESULT 14			
ADM87341			
ID	ADM87341 standard; protein; 256 AA.		
XX			
AC	ADM87341;		
XX			
DT	03-JUN-2004 (first entry)		
XX			
DE	Human protein SEQ ID NO:434.		
XX			
KW	respiratory; cytostatic; antiarthritic; antiinflammatory;		
KW	gastrointestinal; antibacterial; immunosuppressive; antidiabetic;		
KW	antirheumatic; gene therapy; molecular weight marker; chromosome marker;		
KW	chromosome tag; genetic fingerprinting; nutritional supplement; cancer;		
KW	inflammatory condition; arthritis; inflammatory bowel disease;		
KW	Crohn's disease; sepsis; rheumatoid arthritis; diabetes mellitus type 1;		
KW	graft versus host disease; human.		
XX			
OS	Homo sapiens.		
XX			
PN	W02004009834-A2.		
XX			
PD	29-JAN-2004.		
XX			
PF	19-JUL-2002; 2002WO-US022858.		
XX			
XX	21-JUL-2001; 2001US-0306971P.		
PR	28-MAR-2002; 2002US-00112944.		
PR			
XX	(NUVE-) NUVELO INC.		
PA			
XX			
PI	Tang YT, Yang Y, Weng G, Zhang J, Ren F, Xue A, Wang J;		
PI	Wehrman T, Ghosh MJ, Wang D, Zhao QA, Wang Z;		
XX			
XX	WPI; 2004-143291/14.		
DR	N-PSDB; ADM87097.		
XX			
PT	New isolated polynucleotides and polypeptides, useful for treating, e.g.		
PT	cancer, lung or liver fibrosis, arthritis, inflammatory bowel disease,		
PT	Crohn's disease, rheumatoid arthritis, diabetes mellitus type 1 or graft		
PT	versus host disease.		
XX			
XX	Claim 20; SEQ ID NO 434; 591pp; English.		
PS			
XX	The present invention describes an isolated polynucleotide (I): (a)		
CC	comprising a nucleotide sequence isolated from SEQ ID NO:1-244; or (b)		
CC	which encodes a polypeptide with biological activity, where the		
CC	polynucleotide hybridises to (i) under stringent hybridisation conditions		
CC	or has greater than 99% sequence identity with (i). (i) has respiratory,		
CC	cytostatic, antiarthritic, antiinflammatory, gastrointestinal,		
CC	antibacterial, immunosuppressive, antidiabetic and antirheumatic		
CC	activities, and can be used in gene therapy. (i) can be used for		
CC	generating polynucleotides encoding chimeric or fusion proteins and		
CC	heterologous protein sequences. The polynucleotides can be used to		
CC	express recombinant protein for analysis, characterisation or therapeutic		
CC	use; as markers for tissues in which the corresponding protein is		
CC	preferentially expressed; as molecular weight markers on gels; as		
CC	chromosome markers or tags to identify chromosomes or to map related gene		
CC	positions; to compare with endogenous DNA sequences in patients to		
CC	identify potential genetic disorders; as probes to hybridise and discover		
CC	genes, related DNA sequences; as a source of information to derive PCR		

Db	94	DYDRIRLFENGSLLSLDQLADEGTYEVEISITDDTFTGKTNLTVDVPISRPQVLGA	153
Qy	121	STTVLESEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITVLMEDDD	180
Db	154	STTVLESEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITVLMEDDD	213
Qy	181	LYSCMVENPISQGRSLPVKITVYRRSS	207
Db	214	LYSCVVENPISQVRSPLPVKITVYRRSS	240
RESULT 14			
ADM87341			
ID	ADM87341 standard; protein; 256 AA.		
XX			
AC	ADM87341;		
XX			
DT	03-JUN-2004 (first entry)		
XX			
DE	Human protein SEQ ID NO:434.		
XX			
KW	respiratory; cytostatic; antiarthritic; antiinflammatory;		
KW	gastrointestinal; antibacterial; immunosuppressive; antidiabetic;		
KW	antiinflammatory; gene therapy; molecular weight marker; chromosome marker;		
KW	chromosome tag; Genetic fingerprinting; nutritional supplement; cancer;		
KW	inflammatory condition; arthritis; inflammatory bowel disease;		
KW	Crohn's disease; sepsis; rheumatoid arthritis; diabetes mellitus type 1;		
XX	graft versus host disease; human.		
OS	Homo sapiens.		
XX			
PN	W02004009834-A2.		
XX			
PD	29-JAN-2004.		
XX			
PF	19-JUL-2002; 2002WO-US022858.		
PR	21-JUL-2001; 2001US-0306971P.		
PR	28-MAR-2002; 2002US-00112944.		
XX			
PA	(NUVE-) NUVELO INC.		
XX			
PI	Tang YT, Yang Y, Weng G, Zhang J, Ren F, Xue A, Wang J;		
PI	Wehrman T, Ghosh MJ, Wang D, Zhao QA, Wang Z;		
XX			
DR	WPI; 2004-143291/14.		
DR	N-PSDB; ADM87097.		
XX			
PT	New isolated polynucleotides and polypeptides, useful for treating, e.g.		
PT	cancer, lung or liver fibrosis, arthritis, inflammatory bowel disease,		
PT	Crohn's disease, rheumatoid arthritis, diabetes mellitus type 1 or graft		
PT	versus host disease.		
XX			
XX	Claim 20; SEQ ID NO 434; 591pp; English.		
PS	The present invention describes an isolated polynucleotide (I): (a)		
CC	comprising a nucleotide sequence selected from SEQ ID NO:1-244; or (b)		
CC	which encodes a polypeptide with biological activity, where the		
CC	polynucleotide hybridises to (I) under stringent hybridisation conditions		
CC	or has greater than 99% sequence identity with (I). (I) has respiratory,		
CC	cytostatic, antiarthritic, antiinflammatory, gastrointestinal,		
CC	antibacterial, immunosuppressive, antidiabetic and antineoplastic		
CC	activities, and can be used in gene therapy. (I) can be used for		
CC	generating polynucleotides encoding chimeric or fusion proteins and		
CC	heterologous protein sequences. The polynucleotides can be used to		
CC	express recombinant protein for analysis, characterisation or therapeutic		
CC	use; as markers for tissues in which the corresponding protein is		
CC	preferentially expressed; as molecular weight markers on gels; as		
CC	chromosome markers or tags to identify chromosomes or to map related gene		
CC	positions; to compare with endogenous DNA sequences in patients to		
CC	identify potential genetic disorders; as probes to hybridise and discover		
CC	genes, related DNA sequences; as a source of information to derive PCR		

CC primers for genetic fingerprinting; as a probe to subtract-out known
CC sequences in the process of discovering other novel polynucleotides; for
CC selecting and making oligomers for attachment to a gene chip or other
CC support, including for examination of expression patterns; to raise anti-
CC protein antibodies using DNA immunisation techniques; and as an antigen
CC to raise anti-DNA antibodies or elicit another immune response. The
CC polynucleotides and polypeptides can also be used as nutritional sources
CC or supplements, e.g. as a protein or amino acid supplement, as a carbon
CC source, as a nitrogen source or as a source of carbohydrates. The
CC polynucleotides and polypeptides can also be used to treat cancer. The
CC compositions are useful for promoting better or faster closure of non-
CC healing wounds, for the generation and regeneration of tissues, for gut
CC protection or regeneration and treatment of lung or liver fibrosis,
CC reperfusion injury in various tissues, and conditions resulting from
CC systemic cytokine damage. The compositions can also be used to treat
CC inflammatory conditions (e.g. arthritis, inflammatory bowel disease or
CC Crohn's disease), sepsis, rheumatoid arthritis, diabetes mellitus type 1
CC or graft versus host disease. The present sequence represents a novel
CC human polypeptide sequence from the present invention. N.B. The sequences
CC for this patent were obtained from the USPTO web site from an equivalent
CC US patent US20040048249A1.

XX SQ Sequence 256 AA;

Query Match 97.0%; Score 1014; DB 8; Length 256;
Best Local Similarity 96.6%; Pred. No. 4.6e-80;
Matches 200; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
Qy 1 VNITSPVRLHGTGKSAALLSVQSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 60
Db |||||
Qy 34 VNITSPVRLHGTGKSAALLSVQSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 93
Db |||||
Qy 61 DYDRIRLRFENGSLLSLDQLADEGTYEVEISITDDTFTGKTLNLTVDVPISRPQVLVA 120
Db |||||
Qy 94 DYDRIRLRFENGSLLSLDQLADEGTYEVEISITDDTFTGKTLNLTVDVPISRPQVLVA 153
Db |||||
Qy 121 STTVLELSEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITTRVLMEDDD 180
Db |||||
Qy 154 STTVLELSEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITTRVLMEDDD 213
Db |||||
Qy 181 LYSQVNPISQGRSLPVKTIYRRSS 207
Db |||||
Qy 214 LDCVVENPISQGRSLPVKTIYRRSS 240
Db |||||

RESULT 15

ADM87787
ID ADM87787 standard; protein; 256 AA.
XX AC ADM87787;
XX DT 03-JUN-2004 (first entry)
XX DE Human EST derived amino acid sequence SEQ ID NO:880.
XX KW respiratory; cytostatic; antiarthritic; antiinflammatory;
KW gastrointestinal; antibacterial; immunosuppressive; antidiabetic;
KW anirrhematic; gene therapy; molecular weight marker; chromosome marker;
KW chromosome tag; genetic fingerprinting; nutritional supplement; cancer;
KW inflammatory condition; arthritis; inflammatory bowel disease;
KW Crohn's disease; sepsis; rheumatoid arthritis; diabetes mellitus type 1;
KW graft versus host disease; human; expressed sequence tag; EST.
XX OS Homo sapiens.
XX FN WO2004009834-A2.
XX PD 29-JAN-2004.
XX PF 19-JUL-2002; 2002WO-US022858.
XX PR 21-JUL-2001; 2001US-0306971P.
XX PR 28-MAR-2002; 2002US-00112944.

XX (NUVE-) NUVELO INC.
PA Tang YT, Yang Y, Weng G, Zhang J, Ren F, Xue A, Wang J;
PI Wehrman T, Ghosh M, Wang D, Zhao QA, Wang Z;
XX WPI; 2004-143291/14.
DR N-PSDB; ADM87569.
XX New isolated polynucleotides and polypeptides, useful for treating, e.g.
PT cancer, lung or liver fibrosis, arthritis, inflammatory bowel disease,
PT Crohn's disease, rheumatoid arthritis, diabetes mellitus type 1 or graft
PT versus host disease.
XX Example 2; SEQ ID NO 880; 591pp; English.

XX The present invention describes an isolated polynucleotide (I): (a)
CC comprising a nucleotide sequence selected from SEQ ID NO:1-244; or (b)
CC which encodes a polypeptide with biological activity, where the
CC polynucleotide hybridises to (I) under stringent hybridisation conditions
CC or has greater than 9% sequence identity with (I). (I) has respiratory,
CC cytostatic, antiarthritic, antiinflammatory, gastrointestinal, antidiabetic,
CC antibacterial, immunosuppressive, antidiabetic and antineumatic
CC activities, and can be used in gene therapy. (I) can be used for
CC generating polynucleotides encoding chimeric or fusion proteins and
CC heterologous protein sequences. The polynucleotides can be used to
CC express recombinant protein for analysis, characterisation or therapeutic
CC use; as markers for tissues in which the corresponding protein is
CC preferentially expressed; as molecular weight markers on gels; as
CC chromosome markers or tags to identify chromosomes or to map related
CC positions; to compare with endogenous DNA sequences in patients to
CC identify potential genetic disorders; as probes to hybridise and discover
CC genes, related DNA sequences; as a source of information to derive PCR
CC primers for genetic fingerprinting; as a probe to subtract-out known
CC sequences in the process of discovering other novel polynucleotides; for
CC selecting and making oligomers for attachment to a gene chip or other
CC support, including for examination of expression patterns; to raise anti-
CC protein antibodies using DNA immunisation techniques; and as an antigen
CC to raise anti-DNA antibodies or elicit another immune response. The
CC polynucleotides and polypeptides can also be used as nutritional sources
CC or supplements, e.g. as a protein or amino acid supplement, as a carbon
CC source, as a nitrogen source or as a source of carbohydrates. The
CC polynucleotides and polypeptides can also be used to treat cancer. The
CC compositions are useful for promoting better or faster closure of non-
CC healing wounds, for the generation and regeneration of tissues, for gut
CC protection or regeneration and treatment of lung or liver fibrosis,
CC reperfusion injury in various tissues, and conditions resulting from
CC systemic cytokine damage. The compositions can also be used to treat
CC inflammatory conditions (e.g. arthritis, inflammatory bowel disease or
CC Crohn's disease), sepsis, rheumatoid arthritis, diabetes mellitus type 1
CC or graft versus host disease. The present sequence represents an
CC expressed sequence tag (EST) derived amino acid sequence from the present
CC invention. N.B. The sequences for this patent were obtained from the
CC USPTO web site from an equivalent US patent US20040048249A1.

XX SQ Sequence 256 AA;

Query Match 97.0%; Score 1014; DB 8; Length 256;
Best Local Similarity 96.6%; Pred. No. 4.6e-80;
Matches 200; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
Qy 1 VNITSPVRLHGTGKSAALLSVQSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 60
Db |||||
Qy 34 VNITSPVRLHGTGKSAALLSVQSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 93
Db |||||
Qy 61 DYDRIRLRFENGSLLSLDQLADEGTYEVEISITDDTFTGKTLNLTVDVPISRPQVLVA 120
Db |||||
Qy 94 DYDRIRLRFENGSLLSLDQLADEGTYEVEISITDDTFTGKTLNLTVDVPISRPQVLVA 153
Db |||||
Qy 121 STTVLELSEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITTRVLMEDDD 180
Db |||||
Qy 154 STTVLELSEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITTRVLMEDDD 213
Db |||||

Qy 181 LYSCWVENPISQGRSLPVKITVYRRSS 207
Db 214 LYSCWVENPISQGRSLPVKITVYRRSS 240

Search completed: July 26, 2005, 16:07:34
Job time : 59.8945 secs

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OM protein - protein search, using sw model

Run on: July 26, 2005, 15:58:52 ; Search time 15.2841 Seconds
(without alignments)
1011.008 Million cell updates/sec

Title: US-10-706-691-22
Perfect score: 1045
Sequence: 1 VNITSPVRLHGTGKSAALL.....NPISQGRSLPVKITVYRRSS 207

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

- 1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep.*
- 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
- 3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
- 4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
- 5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
- 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	268	25.6	450	4	US-09-907-794A-320
2	268	25.6	450	4	Sequence 320, App
3	268	25.6	450	4	Sequence 320, App
4	268	25.6	450	4	Sequence 320, App
5	268	25.6	450	4	Sequence 320, App
6	268	25.6	450	4	Sequence 320, App
7	268	25.6	450	4	Sequence 320, App
8	268	25.6	450	4	Sequence 320, App
9	268	25.6	450	4	Sequence 320, App
10	163.5	15.6	826	4	US-09-906-618-320
11	163.5	15.6	826	4	US-09-877-730-16
12	163.5	15.6	904	4	US-09-877-730-6
13	163.5	15.6	907	4	US-09-877-730-20
14	163.5	15.6	985	4	US-09-877-730-10
15	163.5	15.6	991	4	US-09-877-730-12
16	163.5	15.6	1069	4	US-09-877-730-2
17	163.5	15.6	1072	4	US-09-877-730-18
18	163.5	15.6	1150	4	US-09-877-730-8
19	161.5	15.5	316	4	US-09-397-243D-13
20	161.5	15.5	300	4	US-09-254-465A-10
21	161.5	15.5	300	4	US-09-397-243D-12
22	161.5	15.5	300	4	US-09-953-499-10
23	161	15.4	321	6	5169835-17
24	161	15.4	321	6	5169835-17
25	159	15.2	344	2	US-08-602-725-34
26	159	15.2	248	6	5169835-15
27	159	15.2	365	4	US-09-949-016-7591

Sequence 24, Appl
Sequence 24, Appl
Sequence 26, Appl
Sequence 26, Appl
Sequence 22, Appl
Sequence 22, Appl
Sequence 6, Appl
Sequence 6, Appl
Sequence 23, Appl
Sequence 23, Appl
Sequence 25, Appl
Sequence 25, Appl
Sequence 189, App
Sequence 331, App
Sequence 2, Appl
Sequence 1, Appl
Sequence 189, App

ALIGNMENTS

RESULT 1

US-09-907-794A-320
; Sequence 320, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Macher, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; PRIOR FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-907-794A-320

Query Match 25.6%; Score 268; DB 4; Length 450;
Best Local Similarity 31.9%; Pred. No. 2.2e-16;
Matches 67; Conservative 43; Mismatches 90; Indels 10; Gaps 7;

Qy 1 VNITSPVRLIHGTGKSALLSVQYS--STSSDRPVVWQQLKR--DKPVTVVQSIGTEVIG 56
Db 20 LKVTVPSTHVGVGQALYLPVHYGHTPASDIQII-WLPERHTMPKYLGSVNVKSWVP 78

Qy 57 TLRPDYRDRIRLF-ENGSLLSLDIQLADEGTYEVEISIT-DDTFTGKTNLTVDVPISR 114
Db 79 DL--EYQHKFTMPNPASLLINPLQFPDEGNYIVKVNIOGNGTILSASQKIQTVDVDPVTK 136

Qy 115 PQVLV-ASTTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITR 173
Db 137 PVQIHPSPGAVEYVGNMTLCHVEGGTRLAYQWLKNGRPVHTSSTYSFSPQNTLTIAP 196

Qy 174 VLMEDDDLYSWMENPISQGRSLRVKITVY 203
Db 197 VTKEIDIGNYSLVRNPVSEMSDIIMPIIY 226

RESULT 2
US-09-905-125A-320
; Sequence 320, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,125A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-905-125A-320

Query Match 25.6%; Score 268; DB 4; Length 450;
Best Local Similarity 31.9%; Pred. No. 2.2e-18;
Matches 67; Conservative 43; Mismatches 90; Indels 10; Gaps 7;

Qy 1 VNITSPVRLIHGTGKSALLSVQYS--STSSDRPVVWQQLKR--DKPVTVVQSIGTEVIG 56
Db 20 LKVTVPSTHVGVGQALYLPVHYGHTPASDIQII-WLPERHTMPKYLGSVNVKSWVP 78

Qy 57 TLRPDYRDRIRLF-ENGSLLSLDIQLADEGTYEVEISIT-DDTFTGKTNLTVDVPISR 114
Db 79 DL--EYQHKFTMPNPASLLINPLQFPDEGNYIVKVNIOGNGTILSASQKIQTVDVDPVTK 136

Qy 115 PQVLV-ASTTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITR 173
Db 137 PVQIHPSPGAVEYVGNMTLCHVEGGTRLAYQWLKNGRPVHTSSTYSFSPQNTLTIAP 196

Qy 174 VLMEDDDLYSWMENPISQGRSLRVKITVY 203
Db 197 VTKEIDIGNYSLVRNPVSEMSDIIMPIIY 226

RESULT 3
US-09-902-775A-320

```

; Sequence 320, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,775A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
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; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-902-775A-320

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Query Match 25.6%; Score 268; DB 4; Length 450;
Best Local Similarity 31.9%; Pred. No. 2.2e-18;
Matches 67; Conservative 43; Mismatches 90; Indels 10; Gaps 7;

QY 1 VNITSPVRLIHGTGKSAALLSVQYS--STSSDRPVKWLKQK--DKPVTVVQSIGTEVIG 56
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 20 LKVTVPSTHVGRGQALYLPVHYGFHTPASDIQII-WLPERPHTMPKYLGSVNVKSVVP 78
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 57 TLRPDYDRIRLF-ENGSLILLSDLQADGTYEVEISIT-DDTFTGKTNILTYDVPISR 114
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 79 DL--EYQHKFTMPMPNPNASLLINPLQFPDEGNYIYKVNIQNGTILSASQKIQTVDVDPVK 136
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 115 PQVLV-ASTVTLELSEAPTLCNSHENGTKQSYTWLKDQKPLLNDRMLLSDPQKVLITTR 173
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 137 PVQIHPPSGAVEVGNMTLTCHVEGTRLAYQWLKNGRPVHTSSTYSFSPQNTLTIAP 196
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 174 VLMEDDDLYSQMVNPISQGRSLPVKITVY 203
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 197 VTKEIDIGNYSLVRNPVSEMSDIIMPIIY 226
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

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RESULT 4
US-09-906-700-320
; Sequence 320, Application US/09906700
; Patent No. 6723535
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,700
; CURRENT FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15

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; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
; ORGANISM: Homo Sapien
US-09-909-064-320

Query Match      25.6%; Score 268; DB 4; Length 450;
Best Local Similarity 31.9%; Pred. No. 2.2e-18;
Matches 67; Conservative 43; Mismatches 90; Indels 10; Gaps 7;

Qy 1 VNITSPVRLHGTGKALLSVQYS--STSSDRPVVKWQLK--DKPVTWVQSIGTEVIG 56
Db 20 LKVTVPSTHTVHGVRGQALYLPVHYGFHTPASDIQII-WLPERPHTMPKYLKGSVNSKSWP 78
Qy 57 TLRPDYDRIRLP-ENGSLLLSDQLADEGTYEVEISIT-DDTFTGKTNLTVDVPIR 114
Db 79 DL--EYQHKFTMPNPASLLINPLQFPDEGNYIVKVNIOGNTLSASQKIQTVDVDPVK 136
Qy 115 PQVLV-ASTTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITR 173
Db 137 PVQIHPPSGAVEYVGNMTLTCHVEGTRLAYQWLKNGRPVHTSSTYSFSPQNTLHIAP 196
Qy 174 VLMEDDDLVSCMVENPISQGRSLPVKITVY 203
Db 197 VTKEDIGNYSCLVRNPVSEMSDIIMPIY 226

RESULT 8
US-09-905-381A-320
; Sequence 320, Application US/09905381A
; Patent No. 6818746
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel

Query Match      25.6%; Score 268; DB 4; Length 450;
Best Local Similarity 31.9%; Pred. No. 2.2e-18;
Matches 67; Conservative 43; Mismatches 90; Indels 10; Gaps 7;

Qy 1 VNITSPVRLHGTGKALLSVQYS--STSSDRPVVKWQLK--DKPVTWVQSIGTEVIG 56
Db 20 LKVTVPSTHTVHGVRGQALYLPVHYGFHTPASDIQII-WLPERPHTMPKYLKGSVNSKSWP 78
Qy 57 TLRPDYDRIRLP-ENGSLLLSDQLADEGTYEVEISIT-DDTFTGKTNLTVDVPIR 114
Db 79 DL--EYQHKFTMPNPASLLINPLQFPDEGNYIVKVNIOGNTLSASQKIQTVDVDPVK 136
Qy 115 PQVLV-ASTTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITR 173
Db 137 PVQIHPPSGAVEYVGNMTLTCHVEGTRLAYQWLKNGRPVHTSSTYSFSPQNTLHIAP 196
Qy 174 VLMEDDDLVSCMVENPISQGRSLPVKITVY 203
Db 197 VTKEDIGNYSCLVRNPVSEMSDIIMPIY 226

; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,381A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
; ORGANISM: Homo Sapien
US-09-905-381A-320
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; APPLICANT: Scoville, John
; APPLICANT: Turner, C. Alexander Jr.
; APPLICANT: Friedrich, Glenn
; APPLICANT: Abuin, Alejandro
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Sands, Arthur T.
; TITLE OF INVENTION: No. 6465632el Human Phosphatases and Polynucleotides Encoding the
; CURRENT APPLICATION NUMBER: US/09/877,730
; CURRENT FILING DATE: 2001-06-08
; PRIOR APPLICATION NUMBER: US 60/210,607
; PRIOR FILING DATE: 2000-06-09
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 904
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-877-730-6

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Matches 58; Conservative 34; Mismatches 63; Indels 61; Gaps 11;

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Qy      62 YRDRIRLFENGSLLSLDQLADEGTYEVEISITDDTFTGKTIINLTVDVPISRPOVLVAS 121
Db      286 -----NGNLMISDVRLQHAGVYVCRA-----TTPGTRNFT-----VAMAT 320
Qy      122 TTVL-----ELSAFT-----LNCSHENGTKPSYTWLKDGPFLNDSRMLLSPDQK 167
Db      321 LTVLAPPSFVEWPESLTPRAGTARFVCAEGIPSPKMSWLKNGRKIHSGRIKMYNSK- 379
Qy      168 VLTITRVLMEDDLLYSQSVENPISQGRSLP-VKITV 202
Db      321 LTVLAPPSFVEWPESLTPRAGTARFVCAEGIPSPKMSWLKNGRKIHSGRIKMYNSK- 379
Qy      321 LTVLAPPSFVEWPESLTPRAGTARFVCAEGIPSPKMSWLKNGRKIHSGRIKMYNSK- 379
Db      168 VLTITRVLMEDDLLYSQSVENPISQGRSLP-VKITV 202
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 907
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-877-730-20

Query Match      15.6%; Score 163.5; DB 4; Length 907;
Best Local Similarity 26.9%; Pred. No. 1.7e-07;
Matches 58; Conservative 34; Mismatches 63; Indels 61; Gaps 11;

Qy      2 NITSPVRLIHGTGKSALLSVQYSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRPD 61
Db      168 VLTITRVLMEDDLLYSQSVENPISQGRSLP-VKITV 202
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 907
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-877-730-20
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Qy      62 YRDRIRLFENGSLLSLDQLADEGTYEVEISITDDTFTGKTIINLTVDVPISRPOVLVAS 121
Db      208 -----NGNLMISDVRLQHAGVYVCRA-----TTPGTRNFT-----VAMAT 242
Qy      122 TTVL-----ELSAFT-----LNCSHENGTKPSYTWLKDGPFLNDSRMLLSPDQK 167
Db      243 LTVLAPPSFVEWPESLTPRAGTARFVCAEGIPSPKMSWLKNGRKIHSGRIKMYNSK- 301
Qy      168 VLTITRVLMEDDLLYSQSVENPISQGRSLP-VKITV 202
Db      302 -LVINQIIPEDDAIYQCAEN--SQGSILSRARLTV 334

RESULT 13
US-09-877-730-10
; Sequence 10, Application US/09877730
; Patent No. 6465632
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Scoville, John
; APPLICANT: Turner, C. Alexander Jr.
; APPLICANT: Friedrich, Glenn
; APPLICANT: Abuin, Alejandro
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Sands, Arthur T.
; TITLE OF INVENTION: No. 6465632el Human Phosphatases and Polynucleotides Encoding the
; FILE REFERENCE: LEX-0189-USA
; CURRENT APPLICATION NUMBER: US/09/877,730
; PRIOR FILING DATE: 2001-06-08
; PRIOR FILING DATE: 2000-06-09
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 985
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-877-730-10

Query Match      15.6%; Score 163.5; DB 4; Length 985;
Best Local Similarity 26.9%; Pred. No. 1.9e-07;
Matches 58; Conservative 34; Mismatches 63; Indels 61; Gaps 11;

Qy      2 NITSPVRLIHGTGKSALLSVQYSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRPD 61
Db      243 NITTS---LHQTV-----VLECMATGNPKPIISWSRLDHSIDV---FNTRVLG----- 285
Qy      62 YRDRIRLFENGSLLSLDQLADEGTYEVEISITDDTFTGKTIINLTVDVPISRPOVLVAS 121
Db      286 -----NGNLMISDVRLQHAGVYVCRA-----TTPGTRNFT-----VAMAT 320
Qy      122 TTVL-----ELSAFT-----LNCSHENGTKPSYTWLKDGPFLNDSRMLLSPDQK 167
Db      321 LTVLAPPSFVEWPESLTPRAGTARFVCAEGIPSPKMSWLKNGRKIHSGRIKMYNSK- 379
Qy      168 VLTITRVLMEDDLLYSQSVENPISQGRSLP-VKITV 202
Db      380 -LVINQIIPEDDAIYQCAEN--SQGSILSRARLTV 412

RESULT 14
US-09-877-730-12
; Sequence 12, Application US/09877730
; Patent No. 6465632
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Scoville, John
; APPLICANT: Turner, C. Alexander Jr.
; APPLICANT: Friedrich, Glenn
; APPLICANT: Abuin, Alejandro
; APPLICANT: Zambrowicz, Brian
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 26, 2005, 16:01:42 ; Search time 52.996 Seconds
(without alignments)
1519.387 Million cell updates/sec

Title: US-10-706-691-22

Perfect score: 1045

Sequence: 1 VNITSPVRLIHGTGKALL.....NPISQGRSLPVKITVYRRSS 207

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1741741 seqs, 38892284 residues

Total number of hits satisfying chosen parameters: 1741741

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
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- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
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- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep.*
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- 19: /cgn2_6/ptodata/2/pubpaa/US11A_PUBCOMB.pep.*
- 20: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
- 21: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1045	100.0	207	16	US-10-706-691-22
2	1045	100.0	240	16	US-10-706-691-20
3	1045	100.0	298	15	US-10-706-691-43
4	1045	100.0	246	15	US-10-432-103-4
5	1045	100.0	383	16	US-10-706-691-26
6	1045	100.0	416	16	US-10-706-691-16
7	1045	100.0	416	16	US-10-706-691-41
8	1029	98.5	418	16	US-10-706-691-18
9	1014	97.0	256	15	US-10-112-944-434
10	1014	97.0	256	15	US-10-112-944-880
11	548	52.4	110	16	US-10-706-691-24

12	548	52.4	114	16	US-10-706-691-4	Sequence 4, Appli
13	484	46.3	94	16	US-10-706-691-6	Sequence 6, Appli
14	268	25.6	450	9	US-09-909-320-320	Sequence 320, App
15	268	25.6	450	9	US-09-909-088B-320	Sequence 320, App
16	268	25.6	450	9	US-09-905-291A-320	Sequence 320, App
17	268	25.6	450	9	US-09-902-853-320	Sequence 320, App
18	268	25.6	450	9	US-09-907-824-320	Sequence 320, App
19	268	25.6	450	9	US-09-907-841-320	Sequence 320, App
20	268	25.6	450	10	US-09-904-011-320	Sequence 320, App
21	268	25.6	450	10	US-09-903-640-320	Sequence 320, App
22	268	25.6	450	10	US-09-908-093-320	Sequence 320, App
23	268	25.6	450	10	US-09-906-742-320	Sequence 320, App
24	268	25.6	450	10	US-09-906-838-320	Sequence 320, App
25	268	25.6	450	10	US-09-907-613-320	Sequence 320, App
26	268	25.6	450	10	US-09-907-942-320	Sequence 320, App
27	268	25.6	450	10	US-09-904-859-320	Sequence 320, App
28	268	25.6	450	10	US-09-909-204-320	Sequence 320, App
29	268	25.6	450	10	US-09-904-820-320	Sequence 320, App
30	268	25.6	450	10	US-09-904-786-320	Sequence 320, App
31	268	25.6	450	10	US-09-906-646-320	Sequence 320, App
32	268	25.6	450	10	US-09-906-700-320	Sequence 320, App
33	268	25.6	450	10	US-09-903-786-320	Sequence 320, App
34	268	25.6	450	10	US-09-902-903-320	Sequence 320, App
35	268	25.6	450	10	US-09-903-749A-320	Sequence 320, App
36	268	25.6	450	10	US-09-904-119-320	Sequence 320, App
37	268	25.6	450	10	US-09-904-956-320	Sequence 320, App
38	268	25.6	450	10	US-09-902-736-320	Sequence 320, App
39	268	25.6	450	10	US-09-907-794-320	Sequence 320, App
40	268	25.6	450	10	US-09-903-943-320	Sequence 320, App
41	268	25.6	450	10	US-09-904-462-320	Sequence 320, App
42	268	25.6	450	10	US-09-907-925-320	Sequence 320, App
43	268	25.6	450	10	US-09-902-692-320	Sequence 320, App
44	268	25.6	450	10	US-09-903-520-320	Sequence 320, App
45	268	25.6	450	10	US-09-905-056-320	Sequence 320, App

ALIGNMENTS

RESULT 1

US-10-706-691-22
; Sequence 22, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Pegan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 22
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-22

Query Match 100.0%; Score 1045; DB 16; Length 207;

Best Local Similarity 100.0%; Pred. No. 5e-88;

Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 VNITSPVRLIHGTGKALLSVQYSSSTSDRPVVKWQKRDKPVTVVQSIGTIGTILRP 60

QY 61 DYDRIRLFENGSLLSLDQLADSGTYEVEISITDDTFTGKTKINLTVDVPISRPQVLVA 120
DB 61 DYDRIRLFENGSLLSLDQLADSGTYEVEISITDDTFTGKTKINLTVDVPISRPQVLVA 120
QY 121 STTVLESEAFTLNCSHENGTKPSYTWLKGKPLNDSRMLLSPDQKVLITITRVLMEDDD 180
DB 121 STTVLESEAFTLNCSHENGTKPSYTWLKGKPLNDSRMLLSPDQKVLITITRVLMEDDD 180
QY 181 LYSWMENPISQGRSLPVKITVYRRSS 207
DB 181 LYSWMENPISQGRSLPVKITVYRRSS 207

RESULT 2

US-10-706-691-20
; Sequence 20, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 20
; LENGTH: 240
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-20

Query Match 100.0%; Score 1045; DB 16; Length 240;
Best Local Similarity 100.0%; Pred. No. 6,1e-88;
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 VNITSPVRLIHGTVGKSALLSVQYSSSTSDRPVVKWQKRDKPTVVVQSIGTEVIGTLRP 60
DB 34 VNITSPVRLIHGTVGKSALLSVQYSSSTSDRPVVKWQKRDKPTVVVQSIGTEVIGTLRP 93
QY 61 DYDRIRLFENGSLLSLDQLADSGTYEVEISITDDTFTGKTKINLTVDVPISRPQVLVA 120
DB 94 DYDRIRLFENGSLLSLDQLADSGTYEVEISITDDTFTGKTKINLTVDVPISRPQVLVA 153
QY 121 STTVLESEAFTLNCSHENGTKPSYTWLKGKPLNDSRMLLSPDQKVLITITRVLMEDDD 180
DB 154 STTVLESEAFTLNCSHENGTKPSYTWLKGKPLNDSRMLLSPDQKVLITITRVLMEDDD 213
QY 181 LYSWMENPISQGRSLPVKITVYRRSS 207
DB 214 LYSWMENPISQGRSLPVKITVYRRSS 240

RESULT 3

US-10-706-691-43
; Sequence 43, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula

; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 43
; LENGTH: 246
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-43

Query Match 100.0%; Score 1045; DB 16; Length 246;
Best Local Similarity 100.0%; Pred. No. 6,3e-88;
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 VNITSPVRLIHGTVGKSALLSVQYSSSTSDRPVVKWQKRDKPTVVVQSIGTEVIGTLRP 60
DB 34 VNITSPVRLIHGTVGKSALLSVQYSSSTSDRPVVKWQKRDKPTVVVQSIGTEVIGTLRP 93
QY 61 DYDRIRLFENGSLLSLDQLADSGTYEVEISITDDTFTGKTKINLTVDVPISRPQVLVA 120
DB 94 DYDRIRLFENGSLLSLDQLADSGTYEVEISITDDTFTGKTKINLTVDVPISRPQVLVA 153
QY 121 STTVLESEAFTLNCSHENGTKPSYTWLKGKPLNDSRMLLSPDQKVLITITRVLMEDDD 180
DB 154 STTVLESEAFTLNCSHENGTKPSYTWLKGKPLNDSRMLLSPDQKVLITITRVLMEDDD 213
QY 181 LYSWMENPISQGRSLPVKITVYRRSS 207
DB 214 LYSWMENPISQGRSLPVKITVYRRSS 240

RESULT 4

US-10-432-103-4
; Sequence 4, Application US/10432103
; Publication No. US20040043424A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: LU, Dzung Aina M.
; APPLICANT: YUE, Henry
; APPLICANT: ELLIOTT, Vicki S.
; APPLICANT: THANGAVELU, Kavitha
; APPLICANT: RAMKUMAR, Jayalaxmi
; APPLICANT: LU, Yan
; APPLICANT: LO, Terrence P.
; APPLICANT: GURURAJAN, Rajagopal
; APPLICANT: GANDHI, Aneena R.
; APPLICANT: ARVIZU, Chandra
; APPLICANT: YAO, Monique G.
; TITLE OF INVENTION: IMMUNOGLOBULIN SUPERFAMILY PROTEINS
; FILE REFERENCE: PP-0841 PCT
; CURRENT APPLICATION NUMBER: US/10/432,103
; CURRENT FILING DATE: 2003-05-16
; PRIOR FILING DATE: 2003-05-16
; PRIOR APPLICATION NUMBER: 60/249,645
; PRIOR FILING DATE: 2000-11-16
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PERL Program
; SEQ ID NO 4
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20040043424A1 5831801CD1
US-10-432-103-4
Query Match 100.0%; Score 1045; DB 15; Length 298;

Best Local Similarity 100.0%; Pred. No. 8.1e-88;
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTGKSAALLSVQSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKSAALLSVQSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLFFENGSLLLSDQLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
Db 94 DYDRIRLFFENGSLLLSDQLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 153
Qy 121 STTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITRVLMEDDD 180
Db 154 STTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITRVLMEDDD 213
Qy 181 LYSWVENPISQGRSLPVKITVYRRSS 207
Db 214 LYSWVENPISQGRSLPVKITVYRRSS 240

RESULT 5

US-10-706-691-26
; Sequence 26, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 26
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-26

Query Match 100.0%; Score 1045; DB 16; Length 383;
Best Local Similarity 100.0%; Pred. No. 1.1e-87;
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTGKSAALLSVQSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 60
Db 1 VNITSPVRLIHGTGKSAALLSVQSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 60
Qy 61 DYDRIRLFFENGSLLLSDQLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
Db 61 DYDRIRLFFENGSLLLSDQLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
Qy 121 STTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITRVLMEDDD 180
Db 121 STTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITRVLMEDDD 180
Qy 181 LYSWVENPISQGRSLPVKITVYRRSS 207
Db 181 LYSWVENPISQGRSLPVKITVYRRSS 207

RESULT 6

US-10-706-691-16
; Sequence 16, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:

; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 16
; LENGTH: 416
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-16

Query Match 100.0%; Score 1045; DB 16; Length 416;
Best Local Similarity 100.0%; Pred. No. 1.3e-87;
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTGKSAALLSVQSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKSAALLSVQSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLFFENGSLLLSDQLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 120
Db 94 DYDRIRLFFENGSLLLSDQLADEGTVEVEISITDDTFTGKTNLTVDVPISRPQVLVA 153
Qy 121 STTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITRVLMEDDD 180
Db 154 STTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITRVLMEDDD 213
Qy 181 LYSWVENPISQGRSLPVKITVYRRSS 207
Db 214 LYSWVENPISQGRSLPVKITVYRRSS 240

RESULT 7

US-10-706-691-41
; Sequence 41, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 41
; LENGTH: 416
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-41

Query Match 100.0%; Score 1045; DB 16; Length 416;
Best Local Similarity 100.0%; Pred. No. 1.3e-87;
Matches 207; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 VNITSPVRLIHGTGKSAALLSVQYSTSSDRPVVKQKLDKDPVTVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKSAALLSVQYSTSSDRPVVKQKLDKDPVTVVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLFENGSLLSLDQLADEGTYEVEISITDDTFTGKKTINLTVDPVPISRPQVLVA 120
Db 94 DYDRIRLFENGSLLSLDQLADEGTYEVEISITDDTFTGKKTINLTVDPVPISRPQVLVA 153
Qy 121 STTVLSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDDD 180
Db 154 STTVLSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDDD 213
Qy 181 LYSCWVENPISQGRSLPVKITVYRRSS 207
Db 214 LYSCWVENPISQGRSLPVKITVYRRSS 240

RESULT 8
US-10-706-691-18
; Sequence 18, Application US/10706691
; Publication No. US20040204352A1
; GENERAL INFORMATION:
; APPLICANT: Davids, Andrew Robert
; APPLICANT: Fagan, Richard Joseph
; APPLICANT: Phelps, Christopher Benjamin
; APPLICANT: Power, Christine
; APPLICANT: Chvatchko, Yolande
; APPLICANT: Boschert, Ursula
; TITLE OF INVENTION: Cytokine antagonist molecules
; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706,691
; PRIOR FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2003-04-30
; PRIOR FILING DATE: 2003-04-30
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Seqwin99, version 1.02
; SEQ ID NO 18
; LENGTH: 418
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-18

Query Match 98.5%; Score 1029; DB 16; Length 418;
Best Local Similarity 98.6%; Pred. No. 3.8e-86;
Matches 204; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTGKSAALLSVQYSTSSDRPVVKQKLDKDPVTVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKSAALLSVQYSTSSDRPVVKQKLDKDPVTVVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLFENGSLLSLDQLADEGTYEVEISITDDTFTGKKTINLTVDPVPISRPQVLVA 120
Db 94 DYDRIRLFENGSLLSLDQLADEGTYEVEISITDDTFTGKKTINLTVDPVPISRPQVLVA 153
Qy 121 STTVLSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDDD 180
Db 154 STTVLSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDDD 213
Qy 181 LYSCWVENPISQGRSLPVKITVYRRSS 207
Db 214 LYSCWVENPISQGRSLPVKITVYRRSS 240

RESULT 9
US-10-112-944-434
; Sequence 434, Application US/10112944
; Publication No. US20040048249A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Yang, Yonghong
; APPLICANT: Weng, Gezhi
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Felyan
; APPLICANT: Xue, Aidong J.
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Wehrman, Tom
```

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; APPLICANT: Weng, Gezhi
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Felyan
; APPLICANT: Xue, Aidong J.
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Wehrman, Tom
; APPLICANT: Ghosh, Malabika
; APPLICANT: Wang, Dunrui
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wang, Zhiwei
; TITLE OF INVENTION: No. US20040048249A1 Nucleic Acids and
; TITLE OF INVENTION: Secreted Polypeptides
; FILE REFERENCE: 805A
; CURRENT APPLICATION NUMBER: US/10/112,944
; CURRENT FILING DATE: 2002-03-28
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: US 09/496,914
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: US 09/515,126
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: US 09/519,705
; PRIOR FILING DATE: 2000-03-07
; PRIOR APPLICATION NUMBER: US 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 09/552,929
; PRIOR FILING DATE: 2000-04-18
; PRIOR APPLICATION NUMBER: US 09/577,408
; PRIOR FILING DATE: 2000-05-18
; NUMBER OF SEQ ID NOS: 924
; SOFTWARE: pt_FL_genes Version 5.0
; SEQ ID NO 434
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-112-944-434

Query Match 97.0%; Score 1014; DB 15; Length 256;
Best Local Similarity 96.6%; Pred. No. 4.7e-85;
Matches 200; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1 VNITSPVRLIHGTGKSAALLSVQYSTSSDRPVVKQKLDKDPVTVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKSAALLSVQYSTSSDRPVVKQKLDKDPVTVVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLFENGSLLSLDQLADEGTYEVEISITDDTFTGKKTINLTVDPVPISRPQVLVA 120
Db 94 DYDRIRLFENGSLLSLDQLADEGTYEVEISITDDTFTGKKTINLTVDPVPISRPQVLVA 153
Qy 121 STTVLSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDDD 180
Db 154 STTVLSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLMEDDDD 213
Qy 181 LYSCWVENPISQGRSLPVKITVYRRSS 207
Db 214 LYSCWVENPISQGRSLPVKITVYRRSS 240

RESULT 10
US-10-112-944-880
; Sequence 880, Application US/10112944
; Publication No. US20040048249A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Yang, Yonghong
; APPLICANT: Weng, Gezhi
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Felyan
; APPLICANT: Xue, Aidong J.
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Wehrman, Tom
```

APPLICANT: Ghosh, Malabika
APPLICANT: Wang, Dunrui
APPLICANT: Zhao, Qing A.
APPLICANT: Wang, Zhiwei
TITLE OF INVENTION: No. US20040048249A1el Nucleic Acids and
Secreted Polypeptides
FILE REFERENCE: 805A
CURRENT APPLICATION NUMBER: US/10/112,944
CURRENT FILING DATE: 2002-03-28
PRIOR APPLICATION NUMBER: US 09/488,725
PRIOR FILING DATE: 2000-01-21
PRIOR APPLICATION NUMBER: US 09/491,404
PRIOR FILING DATE: 2000-01-25
PRIOR APPLICATION NUMBER: US 09/496,914
PRIOR FILING DATE: 2000-02-03
PRIOR APPLICATION NUMBER: US 09/515,126
PRIOR FILING DATE: 2000-02-28
PRIOR APPLICATION NUMBER: US 09/519,705
PRIOR FILING DATE: 2000-03-07
PRIOR APPLICATION NUMBER: US 09/540,217
PRIOR FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: US 09/552,929
PRIOR FILING DATE: 2000-04-18
PRIOR APPLICATION NUMBER: US 09/577,408
PRIOR FILING DATE: 2000-05-18
NUMBER OF SEQ ID NOS: 924
SOFTWARE: pt_FL_genes Version 5.0
SEQ ID NO 880
LENGTH: 256
TYPE: PRT
ORGANISM: Homo sapiens
US-10-112-944-880

Query Match 97.0%; Score 1014; DB 15; Length 256;
Best Local Similarity 96.6%; Pred. No. 4.7e-85;
Matches 200; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
Qy 1 VNITSPVRLIHGTGKSAALLSVQYSSSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 60
Db 34 VNITSPVRLIHGTGKSAALLSVQYSSSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 93
Qy 61 DYDRIRLRFENGSLLSDLQLADEGTYEVEISITDDTFTGKTNLTVDVPIRQVLVA 120
Db 94 DYDRIRLRFENGSLLSDLQLADEGTYEVEISITDDTFTGKTNLTVDVPIRQVLGA 153
Qy 121 STTVLESEATLNCSEHGKPSYTWLKGKPLNDSRMLSPDKVLTITRVLMEDDD 180
Db 154 STTVLESEATLNCSEHGKPSYTWLKGKPLNDSRMLSPDKVLTITRVLMEDDD 213
Qy 181 LYSWVENPIQGRSLPKVITVYRRSS 207
Db 214 LYSWVENPINQGRSLPKVITVYRRSS 240

RESULT 11
US-10-706-691-24
Sequence 24, Application US/10706691
Publication No. US20040204352A1
GENERAL INFORMATION:
APPLICANT: Davids, Andrew Robert
APPLICANT: Fagan, Richard Joseph
APPLICANT: Phelps, Christopher Benjamin
APPLICANT: Power, Christine
APPLICANT: Chvatchko, Yolande
APPLICANT: Boschert, Ursula
TITLE OF INVENTION: Cytokine antagonist molecules
CURRENT APPLICATION NUMBER: US/10/706,691
CURRENT FILING DATE: 2003-11-12
PRIOR APPLICATION NUMBER: PCT/GB03/01851
PRIOR FILING DATE: 2003-04-30
PRIOR APPLICATION NUMBER: GB 0209884.6
PRIOR FILING DATE: 2002-04-30

NUMBER OF SEQ ID NOS: 43
SOFTWARE: SeqWin99, version 1.02
SEQ ID NO 24
LENGTH: 110
TYPE: PRT
ORGANISM: Homo sapiens
US-10-706-691-24

Query Match 52.4%; Score 548; DB 16; Length 110;
Best Local Similarity 100.0%; Pred. No. 1.3e-42;
Matches 110; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 VNITSPVRLIHGTGKSAALLSVQYSSSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 60
Db 1 VNITSPVRLIHGTGKSAALLSVQYSSSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 60
Qy 61 DYDRIRLRFENGSLLSDLQLADEGTYEVEISITDDTFTGKTNLTVDV 110
Db 61 DYDRIRLRFENGSLLSDLQLADEGTYEVEISITDDTFTGKTNLTVDV 110

RESULT 12
US-10-706-691-4
Sequence 4, Application US/10706691
Publication No. US20040204352A1
GENERAL INFORMATION:
APPLICANT: Davids, Andrew Robert
APPLICANT: Fagan, Richard Joseph
APPLICANT: Phelps, Christopher Benjamin
APPLICANT: Power, Christine
APPLICANT: Chvatchko, Yolande
APPLICANT: Boschert, Ursula
TITLE OF INVENTION: Cytokine antagonist molecules
CURRENT APPLICATION NUMBER: US/10/706,691
CURRENT FILING DATE: 2003-11-12
PRIOR APPLICATION NUMBER: PCT/GB03/01851
PRIOR FILING DATE: 2003-04-30
PRIOR APPLICATION NUMBER: GB 0209884.6
PRIOR FILING DATE: 2002-04-30
NUMBER OF SEQ ID NOS: 43
SOFTWARE: SeqWin99, version 1.02
SEQ ID NO 4
LENGTH: 114
TYPE: PRT
ORGANISM: Homo sapiens
US-10-706-691-4

Query Match 52.4%; Score 548; DB 16; Length 114;
Best Local Similarity 100.0%; Pred. No. 1.4e-42;
Matches 110; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 VNITSPVRLIHGTGKSAALLSVQYSSSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 60
Db 5 VNITSPVRLIHGTGKSAALLSVQYSSSTSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRP 64
Qy 61 DYDRIRLRFENGSLLSDLQLADEGTYEVEISITDDTFTGKTNLTVDV 110
Db 65 DYDRIRLRFENGSLLSDLQLADEGTYEVEISITDDTFTGKTNLTVDV 114

RESULT 13
US-10-706-691-6
Sequence 6, Application US/10706691
Publication No. US20040204352A1
GENERAL INFORMATION:
APPLICANT: Davids, Andrew Robert
APPLICANT: Fagan, Richard Joseph
APPLICANT: Phelps, Christopher Benjamin
APPLICANT: Power, Christine
APPLICANT: Chvatchko, Yolande
APPLICANT: Boschert, Ursula
TITLE OF INVENTION: Cytokine antagonist molecules

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; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706.691
; PRIOR FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/GB03/01851
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: GB 0209884.6
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 6
; LENGTH: 94
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-706-691-6

Query Match      46.3%; Score 484; DB 16; Length 94;
Best Local Similarity 100.0%; Pred. No. 8.3e-37;
Matches 94; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 111 PISRPQVLVASTTVEELSEAFTLNCSEHNGTKPSYTWLKGKPLNDSRMLLSPDQKVL 170
Db 1 PISRPQVLVASTTVEELSEAFTLNCSEHNGTKPSYTWLKGKPLNDSRMLLSPDQKVL 60

Qy 171 ITRVLMEDDDLYSCMVENPISQGRSLPVKITVYR 204
Db 61 ITRVLMEDDDLYSCMVENPISQGRSLPVKITVYR 94

RESULT 14
US-09-909-320-320
; Sequence 320, Application US/09909320
; Patent No. US20020132240A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: ROY, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,320
; CURRENT FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08

; FILE REFERENCE: 674582-2001
; CURRENT APPLICATION NUMBER: US/10/706.691
; PRIOR FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 320
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-909-320-320

Query Match      25.6%; Score 268; DB 9; Length 450;
Best Local Similarity 31.9%; Pred. No. 5.1e-16;
Matches 67; Conservative 43; Mismatches 90; Indels 10; Gaps 7;

Qy 1 VNITSPVRLIHGTGKSALLSVOYS--STSSDRPVVKWQLKR--DKPVTVVQSIGTEVIG 56
Db 20 LKVTVPSTHTVGVGQALYLVHVGFTHTPASDIQII-WLPERPHTMPKYLKGSVNRKSWVP 78

Qy 57 TLRPDYDRIRLP-ENGSLLLSDLOADEGTYEVSIT-DDTFTGKTNLTVDVPISR 114
Db 79 DL--EYQHKFTMPPNPNASLLINLQFPDEGNYIVKVNIOGNGTSLASQKIQTVDVDDVTK 136

Qy 115 POVLV-ASTTVLELSEAFNLCSHENGTKPSYTWLKGKPLNDSRMLLSPDQKVLITR 173
Db 137 PVQIHPPSGAVEYVGNWILTCHEVGTRLAYQWLKNGRPVHTSSYVSFSPQNNLHIAP 196

Qy 174 VLMEDDDLYSCMVENPISQGRSLPVKITVY 203
Db 197 VTKEDIGNYSCLVRNPVSEMSDIIMPIY 226

RESULT 15
US-09-909-088B-320
; Sequence 320, Application US/09909088B
; Patent No. US20020146709A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
```


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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 26, 2005, 15:58:02; Search time 11.9615 Seconds
(without alignments)
1665.085 Million cell updates/sec

Title: US-10-706-691-22

Perfect score: 1045

Sequence: 1 VNITSPVRLIHGTGKSALL.....NPISQGRSLPVKITVYRRSS 207

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

PIR_79:*
1: pir1.*
2: pir2.*
3: pir3.*
4: pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	207.5	19.9	278	2 JC1506	biliary glycoprote
2	207.5	19.9	341	2 JC1512	carcinoembryonic a
3	202.5	19.4	278	2 A39037	biliary glycoprote
4	186	17.8	458	2 JC1509	biliary glycoprote
5	181	17.3	521	2 S34338	Ly-9.2 antigen - m
6	180.5	17.3	629	2 A46500	biliary glycoprote
7	179.5	17.2	272	2 I48268	biliary glycoprote
8	179.5	17.2	278	2 JC1507	biliary glycoprote
9	179.5	17.2	341	2 JC1511	biliary glycoprote
10	176.5	16.9	475	2 A54879	pregnancy-specific
11	167	16.0	853	1 IJBONC	neural cell adhesi
12	166	15.9	858	1 IJRTNC	neural cell adhesi
13	165	15.8	475	2 I76668	pregnancy-specific
14	164	15.7	458	2 S68177	C-CAM2a protein is
15	164	15.7	458	2 S23969	cell-adhesion mole
16	164	15.7	519	2 A44783	ecto-ATPase precu
17	161	15.4	458	1 WMMSR1	biliary glycoprote
18	161	15.4	521	2 JC1508	neural cell adhesi
19	160.5	15.4	725	2 J50100	neural cell adhesi
20	160.5	15.4	1092	1 JN0635	neural cell adhesi
21	159	15.2	344	2 A27681	non-specific cross-
22	158.5	15.2	709	2 A35364	carcinoembryonic a
23	157	15.0	299	2 S56749	junctional adhesio
24	156.5	15.0	761	1 IJHUNG	neural cell adhesi
25	155	14.8	324	2 G43354	pregnancy-specific
26	155	14.8	326	2 F43354	pregnancy-specific
27	155	14.8	332	2 A43354	pregnancy-specific
28	155	14.8	335	2 H43354	pregnancy-specific
29	155	14.8	395	2 D43354	pregnancy-specific

30	155	14.8	397	2 C43354	pregnancy-specific
31	155	14.8	406	2 E43354	pregnancy-specific
32	155	14.8	417	2 A28277	pregnancy-specific
33	155	14.8	419	2 A33258	pregnancy-specific
34	155	14.8	419	2 A31135	pregnancy-specific
35	155	14.8	426	2 A35964	pregnancy-specific
36	155	14.8	426	2 A33258	pregnancy-specific
37	155	14.8	426	2 A35341	pregnancy-specific
38	155	14.8	428	2 A27658	neural cell adhesi
39	154.5	14.8	725	2 J50099	neural cell adhesi
40	154.5	14.8	1091	1 IJCHNL	biliary glycoprote
41	154	14.7	206	2 A40305	biliary glycoprote
42	154	14.7	321	2 JH0395	biliary glycoprote
43	154	14.7	351	2 JH0396	biliary glycoprote
44	154	14.7	417	2 JH0394	biliary glycoprote
45	154	14.7	419	2 B54312	pregnancy-specific

ALIGNMENTS

RESULT 1

JC1506

biliary glycoprotein B - mouse

C:Species: Mus musculus (house mouse)

C:Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 09-Jul-2004

C:Accession: JC1506

R:McCuagig, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.

Gene 127, 173-183, 1993

A:Title: Expression of the Bgp gene and characterization of mouse colon biliary glycopro

A:Reference number: JC1505; MUID:93273228; PMID:8500759

A:Accession: JC1506

A>Status: nucleic acid sequence not shown

A:Molecule type: mRNA

A:Residues: 1-278 <MCC>

A:Cross-references: UNIPROT:Q99232

C:Comment: This protein is expressed at the cell surface and plays a determinant role in

C:Genetics:

A:Gene: BgpB

C:Superfamily: biliary glycoprotein; carcinoembryonic antigen precursor amino-terminal

C:Keywords: glycoprotein; receptor

F:1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>

F:159-216/Domain: immunoglobulin homology <IMM>

F:87,104,153,195/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 19.9%; Score 207.5; DB 2; Length 278;

Best Local Similarity 32.1%; Pred. No. 3.5e-09;

Matches 54; Conservative 32; Mismatches 73; Indels 9; Gaps 5;

Qy 40 RDKPVTVVQSIGTEVIGTLR----PDYRDRIRLPFENGSLLLSLDLQLADEGTYEVEISITD 95

Db 69 KGNPVSTNAEIVHQVTGNTKTTTGPASGRETIVYNSGLLIQRTVVDYGVYTTIE--MTD 126

Qy 96 DTF-TGSEKTLINLTVDVPIRSPQVLVASTTVLELSEAFITLNCSHENGTFKPSYTWLKDQKPL 154

Db 127 ENFRTEATQVHFVHQVPTQPSLQVTTNTVKEL-DSVTLTCL-SNDIGANIQLWLFNSQSL 184

Qy 155 -LNSRMLLSPDQKVLITTRVLMEDDDLYSCWNPISQGRSLPVKITV 202

Db 185 QLTERMTLSQNNILRIDPIKREDAGYQCEISNPNVSVKRSNSIKLDI 232

RESULT 2

JC1512

biliary glycoprotein H - mouse

C:Species: Mus musculus (house mouse)

C:Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 09-Jul-2004

C:Accession: JC1512

R:McCuagig, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.

Gene 127, 173-183, 1993

A:Title: Expression of the Bgp gene and characterization of mouse colon biliary glycopro

A:Reference number: JC1505; MUID:93273228; PMID:8500759

A:Accession: JC1512

A:Molecule type: mRNA
A:Residues: 1-341 <MCC>
C:Cross-references: UNIPROT:Q61354; GB:X67293
C:Comment: This protein is expressed at the cell surface and plays a determinant role in
C:Genetics:
A:Gene: Bgph
C:Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-terminal
C:Keywords: glycoprotein; receptor
F:1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
F:159-216/Domain: immunoglobulin homology <IMM>
F:87,104,153,195/Binding site: carbohydrate (Asn) (covalent) #status predicted
Query Match 19.4%; Score 207.5; DB 2; Length 341;
Best Local Similarity 32.1%; Pred. No. 4.6e-09;
Matches 54; Conservative 32; Mismatches 73; Indels 9; Gaps 5;
Qy 40 RDKPTVVQSIGTEVIGTLR----PDYRDRIRLFENGSLLLSDQLADEGYEVEISITD 95
Db 69 KGNPVTNAEIVHQVTGNTKTTGPAHSGRETIVYNSGSLLIQRVTVKDGTGYTIE--MTD 126
Qy 96 DTF-TGEKTNILTVDPVPSRQVLVASTTVLSEAFTLNCSHENGTKPSYTWLKDQKPL 154
Db 127 ENFRTEATVQFHVHPQVPSLQVNTTVKEL-DSVTLTCL-SNDIGANIQLFNQSLS 184
Qy 155 LNDSRMLSPDQKVLITITRVLMEDDLYSCMVENPISQGRSLPVKITV 202
Db 185 QLTERMTLSQNNILRIDPIKREDAGEYQCEISNPVSVKRSNSIKLDI 232
RESULT 3
A39037
N:Alternate names: biliary glycoprotein - mouse
C:Species: Mus musculus (house mouse)
C:Keywords: cell adhesion; glycoprotein; transmembrane protein
C:Date: 31-Jul-1991 #sequence_revision 31-Jul-1991 #text_change 09-Jul-2004
C:Accession: A39037; S13760
R:Turbide, C.; Rojas, M.; Stanners, C.P.; Beauchemin, N.
J. Biol. Chem. 266, 309-315, 1991
A:Title: A mouse carcinoembryonic antigen gene family member is a calcium-dependent cell
A:Reference number: A39037; MUID:91093141; PMID:1985902
A:Accession: A39037
A:Molecule type: mRNA
A:Residues: 1-278 <TUR>
C:Cross-references: UNIPROT:Q99232; GB:X53084; NID:g50368; PIDN:CAA37251.1; PID:g50369
C:Superfamily: biliary glycoprotein; carcinoembryonic antigen precursor amino-terminal h
C:Keywords: cell adhesion; glycoprotein; transmembrane protein
F:1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
F:134-34/Domain: signal sequence #status predicted <SIG>
F:35-278/Product: carcinoembryonic antigen mmCGM2 #status predicted <MAT>
F:35-232/Domain: extracellular #status predicted <EXT>
F:35-232/Domain: immunoglobulin homology <IMM>
F:233-268/Domain: transmembrane #status predicted <TMM>
F:269-278/Domain: intracellular #status predicted <INT>
F:87,104,153,195/Binding site: carbohydrate (Asn) (covalent) #status predicted
Query Match 19.4%; Score 202.5; DB 2; Length 278;
Best Local Similarity 32.1%; Pred. No. 8.8e-09;
Matches 54; Conservative 31; Mismatches 74; Indels 9; Gaps 5;
Qy 40 RDKPTVVQSIGTEVIGTLR----PDYRDRIRLFENGSLLLSDQLADEGYEVEISITD 95
Db 69 KGNPVTNAEIVHFVGTGNTKTTGPAHSGRETIVYNSGSLLIQRVTVKDGTGYTIE--MTD 126
Qy 96 DTF-TGEKTNILTVDPVPSRQVLVASTTVLSEAFTLNCSHENGTKPSYTWLKDQKPL 154
Db 127 ENFRTEATVQFHVHPQVPSLQVNTTVKEL-DSVTLTCL-SNDIGANIQLFNQSLS 184
Qy 155 LNDSRMLSPDQKVLITITRVLMEDDLYSCMVENPISQGRSLPVKITV 202
Db 185 QLTERMTLSQNNILRIDPIKREDAGEYQCEISNPVSVKRSNSIKLDI 232
RESULT 4

JC1509
biliary glycoprotein E - mouse
C:Species: Mus musculus (house mouse)
C:Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 09-Jul-2004
C:Accession: JC1509
R:McCuagig, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.
Gene 127, 173-183, 1993
A:Title: Expression of the Bgp gene and characterization of mouse colon biliary glycoprot
A:Reference number: JC1505; MUID:93273228; PMID:8500759
A:Accession: JC1509
A:Molecule type: mRNA
A:Residues: 1-458 <MCC>
A:Cross-references: UNIPROT:Q61351; GB:X67280
C:Comment: This protein is expressed at the cell surface and plays a determinant role in
C:Genetics:
A:Gene: Bgpe
C:Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-terminal
C:Keywords: glycoprotein; receptor
F:1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
F:160-219/Domain: immunoglobulin homology <IMM1>
F:254-303/Domain: immunoglobulin homology <IMM2>
F:339-396/Domain: immunoglobulin homology <IMM3>
F:87,104,148,199,206,210,226,258,290,294,304,333,375/Binding site: carbohydrate (Asn) (co
Query Match 17.8%; Score 186; DB 2; Length 458;
Best Local Similarity 27.8%; Pred. No. 3.4e-07;
Matches 47; Conservative 35; Mismatches 79; Indels 8; Gaps 4;
Qy 40 RDKPTVVQSIGTEVIGTLR---PDYRDRIRLFENGSLLLSDQLADEGYEVEISITD 95
Db 69 KGNPVTNAEIVHQVTGNTKTTGPAHSGRETIVYNSGSLLIQRVTVKDGTGYTIE--MTD 126
Qy 96 DTF-TGEKTNILTVDPVPSRQVLVASTTVLSEAFTLNCSHENGTKPSYTWLKDQK 153
Db 127 ENFRTEATVQFHVHPHLLKPNITSNNSNPVEGDSVLTCSYTDPDNITYLMSRNGES 186
Qy 154 LNDSRMLSPDQKVLITITRVLMEDDLYSCMVENPISQGRSLPVKITV 202
Db 187 LSEGRDLKLSGKNTLTLLNVTFNDGYPVCEFRNPNVSRSDPFSLSNI 235
RESULT 5
S34338
biliary glycoprotein F - mouse
N:Alternate names: mouse hepatitis virus (MHV) receptor glycoprotein
C:Species: Mus musculus (house mouse)
C:Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 09-Jul-2004
C:Accession: S34338; JC1510; A41093
R:Huang, D.C.; Huang, X.F.; Novel, M.; Novel, G.
submitted to the EMBL Data Library, July 1992
A:Description: A Clp-family gene present on the lactose-protease plasmid of Lactococcus
A:Reference number: S34338
A:Accession: S34338
A>Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-521 <HUA>
A:Cross-references: UNIPROT:Q61352; EMBL:X67281; NID:g312585; PIDN:CAA47698.1; PID:g31258
R:McCuagig, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.
Gene 127, 173-183, 1993
A:Title: Expression of the Bgp gene and characterization of mouse colon biliary glycoprot
A:Reference number: JC1505; MUID:93273228; PMID:8500759
A:Accession: JC1510
A:Molecule type: mRNA
A:Residues: 1-81, 'Q', 83-141, 'P', 143-521 <MCC>
A:Cross-references: GB:X67281
R:Williams, R.K.; Jiang, G.S.; Holmes, K.V.
Proc. Natl. Acad. Sci. U.S.A. 88, 5533-5536, 1991
A:Title: Receptor for mouse hepatitis virus is a member of the carcinoembryonic antigen
A:Reference number: A41093; MUID:91288498; PMID:1648219
A:Accession: A41093
A>Status: preliminary
A:Molecule type: protein
A:Residues: 35-59 <WIL>


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Qy 181 LYSWVENPISQGRSLPVKITV 202
Db 211 EYQCEISNPVSRNSIKLDI 232

RESULT 9
JC1511
biliary glycoprotein G - mouse
C;Species: Mus musculus (house mouse)
C;Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 09-Jul-2004
C;Accession: JC1511
R;McCuag, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.
Gene 127, 173-183, 1993
A;Title: Expression of the Bgp gene and characterization of mouse colon biliary glycoprotein G
A;Reference number: JC1505; MUID:9327328; PMID:8500759
A;Accession: JC1511
A;Molecule type: DNA
A;Residues: 1-341 <MCC>
A;Cross-references: UNIPROT:Q61353; GB:X67282
C;Comment: This protein is expressed at the cell surface and plays a determinant role in
C;Genetics:
A;Gene: Bgpg
C;Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-terminal
C;Keywords: glycoprotein; receptor
F;1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
F;75-124/Domain: immunoglobulin homology <IMM1>
F;159-216/Domain: immunoglobulin homology <IMM2>
F;71,89,104,153,195/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 17.2%; Score 179.5; DB 2; Length 341;
Best Local Similarity 31.7%; Pred. No. 7.6e-07;
Matches 45; Conservative 29; Mismatches 63; Indels 5; Gaps 4;

Qy 62 YRDIRLFENGSLLDLQADEGYEVEISITDTP-TGEKTLNLTVDVPISRPQVLVA 120
Db 95 YSGREIIYVSGSLLFQMTKMDGVYTLT--MTDENYRRTQATVRFHVHPVTPQPFQVLT 152

Qy 121 STTVLEISEAFTLNCSENGTKPSYTWLKGKPLNDSRMLSPDQKVLITRVLMDDD 180
Db 153 NTVVKEL-DSVTLTCL--SNDIGANIQLFNSQSLQLTERMTLSQNNILRIDPIKREDAG 210

Qy 181 LYSWVENPISQGRSLPVKITV 202
Db 211 EYQCEISNPVSRNSIKLDI 232

RESULT 10
A54879
pregnancy-specific glycoprotein rncgm3 - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 19-Jan-1996 #sequence_revision 19-Jan-1996 #text_change 09-Jul-2004
C;Accession: A54879
R;Chen, H.; Chen, C.L.; Chou, J.Y.
Biochemistry 33, 9615-9626, 1994
A;Title: Characterization of two promoters of a rat pregnancy-specific glycoprotein gene
A;Reference number: A54879; MUID:94347731; PMID:8086638
A;Accession: A54879
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-475 <CHE>
A;Cross-references: UNIPROT:Q62664; GB:U09815; NID:q497254; PIDN:AAA56870.1; PID:g497255
A;Note: authors translated the codon GCT for residue 64 as Gly
C;Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-terminal
C;Keywords: glycoprotein
F;1-137/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEA1>
F;242-378/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEA2>
F;399-456/Domain: immunoglobulin homology <IMM2>

Query Match 16.9%; Score 176.5; DB 2; Length 475;
Best Local Similarity 32.3%; Pred. No. 2e-06;
Matches 64; Conservative 24; Mismatches 95; Indels 15; Gaps 8;

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Qy 11 HGTGKSGALLSVQYSSSTSDRPPVKW-----QLKRDKPVTVVQSIGTEVIGTRLPDYRDR 65
Db 284 HAVEGESVLLYVH--NLPEALQTFSSWKYGVYSLKKEF--IAEYSIATKSVPF-GPAHRGR 338

Qy 66 IRLFENGSLLDLQADEGYEVEISITDTP-TGEKTLNLTVDVPISRPQVLVA 124
Db 339 ATGYTNGSLLDLQDLTARDTGLYTL-VTLDSNSKIKSAPQVTVHKPVTQPFLEVTSTVT 397

Qy 125 LELSEAFNLNCSENGTKPSYTWLKGKPLNDSRMLSPDQKVLITRVLMDDD 184
Db 398 VQSSVFT--CLSDN-TGVSIRLWLFKNQLQVTERMTLSQNNILRIDPIKREDAG 454

Qy 185 MVENPISQGRSLPVKITV 202
Db 455 EAFNPISSTSRPVSLAV 472

RESULT 11
IJBONC
neural cell adhesion molecule short domain form precursor - bovine
N;Alternate names: NCAM-140
C;Species: Bos primigenius taurus (cattle)
C;Date: 31-Mar-1993 #sequence_revision 31-Mar-1993 #text_change 09-Jul-2004
C;Accession: A32976; A38778; B44290; S05402
R;Lipkin, V.M.; Khramtsov, N.V.; Andreeva, S.G.; Moshnyakov, M.V.; Petukhova, G.V.; Rakit
FEBS Lett. 254, 69-73, 1989
A;Title: Calmodulin-independent bovine brain adenylate cyclase. Amino acid sequence and
A;Reference number: A32976; MUID:89378239; PMID:2776887
A;Accession: A32976
A;Molecule type: mRNA
A;Residues: 1-853 <LIP>
A;Cross-references: UNIPROT:P31836; GB:X16451; NID:960; PIDN:CAA34470.1; PID:g61
A;Accession: A38778
A;Molecule type: protein
A;Residues: 20-35;51-61;113-117;122-147;155-161;262-275;279-302;353-360;369-382;544-562;5
A;Note: the authors identified this protein as calmodulin-independent adenylate cyclase
R;Rougon, G.; Marshak, D.R.
J. Biol. Chem. 261, 3396-3401, 1986
A;Title: Structural and immunological characterization of the amino-terminal domain of ma
A;Reference number: A44290; MUID:86140120; PMID:3512556
A;Accession: B44290
A;Molecule type: protein
A;Residues: 20-36 <ROU>
A;Note: 23-Glu was also found
C;Comment: NCAM mediates cell-cell adhesion via homophilic binding with another NCAM mole
C;Superfamily: neural cell adhesion molecule; fibronectin type III repeat homology; immu
C;Keywords: alternative splicing; brain; cell adhesion; duplication; heparin binding; sta
F;1-19/Domain: signal sequence #status predicted <SIG>
F;20-853/Product: neural cell adhesion molecule, short domain form #status experimental
F;20-719/Domain: extracellular #status predicted <EXT>
F;34-98/Domain: immunoglobulin homology <IMM1>
F;132-191/Domain: immunoglobulin homology <IMM2>
F;152-156/Region: heparin binding #status predicted
F;161-165/Region: heparin binding #status predicted
F;228-288/Domain: immunoglobulin homology <IMM3>
F;261-270/Region: NCAM binding #status predicted
F;321-396/Domain: immunoglobulin homology <IMM4>
F;428-490/Domain: immunoglobulin homology <IMM5>
F;527-604/Domain: fibronectin type III repeat homology <FN3A>
F;633-693/Domain: fibronectin type III repeat homology <FN3B>
F;720-737/Domain: transmembrane #status predicted <TM>
F;738-853/Domain: intracellular #status predicted <INT>
F;41-96,119-189,235-286,328-394,435-488/Disulfide bonds: #status predicted
F;222,314,346,432,458,487/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 16.0%; Score 167; DB 1; Length 853;
Best Local Similarity 30.9%; Pred. No. 2.4e-05;
Matches 55; Conservative 28; Mismatches 73; Indels 22; Gaps 7;

Qy 28 SSRDPVVKQLKRDKPVTVVQSIGTEVIGTRLPDYRDRIRLFENGSLLDLQADEGY 87
Db 143 SSLPPTTIWKHK-----GRDVI--LKKDV--RFIVLTNNYLQIRGIKKTDEGT 187

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QY 88 EVEISITDDTFTGKTNLTVDVP--ISRPOVLVASTTTLVLESEFTLNCSHENGTKPSY 145
DB 188 RCEGRILARGEINFKDIQVNVNPTVQARQSIWNATA--NLGQSVTLVCNAGPEPTV 245
QY 146 TWLKDQKPLLN--DSRMLLSPDQKVLTTIRVLMEDDDLYSCMVNPI-SQGRSLPVKI 200
DB 246 SWTKDGEQIENEEDKYLFSDDSSBLTIRKVDKNDEAEYVCIAENKAGEQDASIHVKV 303

RESULT 12

Query Match 15.9%; Score 166; DB 1; Length 858;
Best Local Similarity 30.0%; Pred. No. 2.9e-05;
Matches 54; Conservative 28; Mismatches 74; Indels 24; Gaps 7;
N/JRNC
N/Alternate names: NCAM-140
C/Species: Rattus norvegicus (Norway rat)
C/Date: 30-Sep-1991 #sequence revision 30-Sep-1991 #text_change 09-Jul-2004
C/Accession: S00846; B37795; I58136
R/Small, S.J.; Shull, G.E.; Santoni, M.J.; Akesson, R.
J. Cell Biol. 105, 2335-2345, 1987
A/Title: Identification of a cDNA clone that contains the complete coding sequence for a
A/Reference number: S00846; MUID:88059265; PMID:3680385
A/Accession: S00846
A/Molecule type: mRNA
A/Residues: 1-858 <SMA>
A/Cross-references: UNIPROT:P13596; EMBL:X06564
R/Small, S.J.; Akesson, R.
J. Cell Biol. 111, 2089-2096, 1990
A/Title: Expression of the unique NCAM VASE exon is independently regulated in distinct
A/Reference number: A37795; MUID:91035620; PMID:1699951
A/Accession: B37795
A/Status: preliminary; not compared with conceptual translation
A/Molecule type: mRNA
A/Residues: 340-381 <SM2>
R/Small, S.J.; Haines, S.L.; Akesson, R.A.
Neuron 1, 1007-1017, 1988
A/Title: Polypeptide variation in an N-CAM extracellular immunoglobulin-like fold is dev
A/Reference number: I58136; MUID:90166485; PMID:2483093
A/Accession: I58136
A/Status: preliminary; translated from GB/EMBL/DBJ
A/Molecule type: DNA
A/Residues: 353-364 <RES>
A/Cross-references: GB:M32611; NID:g205643; PIDN:AAA41679.1; PID:g205644
C/Comment: NCAM mediates cell-cell adhesion via homophilic binding with another NCAM mol
C/Comment: Various forms of NCAM are produced by alternative splicing.
C/Genetics:
A/Gene: NCAM
C/Superfamily: neural cell adhesion molecule; fibronectin type III repeat homology; immu
C/Keywords: alternative splicing; brain; cell adhesion; duplication; heparin binding; si
F/1-19/Domain: signal sequence #status predicted <SIG>
F/20-858/Product: neural cell adhesion molecule, short domain form #status predicted <MA
F/20-721/Domain: extracellular #status predicted <EXT>
F/34-98/Domain: immunoglobulin homology <IMM1>
F/132-191/Domain: immunoglobulin homology <IMM2>
F/152-156/Region: heparin binding #status predicted
F/161-165/Region: heparin binding #status predicted
F/228-290/Domain: immunoglobulin homology <IMM3>
F/263-272/Region: NCAM binding #status predicted
F/323-398/Domain: immunoglobulin homology <IMM4>
F/430-492/Domain: immunoglobulin homology <IMM5>
F/529-606/Domain: fibronectin type III repeat homology <FN3A>
F/635-695/Domain: fibronectin type III repeat homology <FN3B>
F/722-739/Domain: transmembrane #status predicted <TM>
F/740-858/Domain: intracellular #status predicted <INT>
F/41-96,139-189,235-288,330-396,437-490/Disulfide bonds: #status predicted
F/222,316,348,434,460,489/Binding site: carbohydrate (Aen) (covalent) #status predicted

Query Match 15.9%; Score 166; DB 1; Length 858;
Best Local Similarity 30.0%; Pred. No. 2.9e-05;
Matches 54; Conservative 28; Mismatches 74; Indels 24; Gaps 7;
QY 28 SSDRPVVKQKRPKPVTVVQSIGTEVIGTIRPDYRDRIRLFPENGSLLSDLQADEGTY 87
DB 143 SSLPPTIWKHK-----GRDVI--LKKDV--RFVLSNNYLQIRIGIKKTDEGTY 187

QY 88 EVEISITDDTFTGKTNLTVDVP--ISRPOVLVASTTTLVLESEFTLNCSHENGTKPSY 145
DB 188 RCEGRILARGEINFKDIQVNVNPTVQARQSIWNATA--NLGQSVTLVCNAGPEPTM 245
QY 146 TWLKDQKPLLN--DSRMLLSPDQKVLTTIRVLMEDDDLYSCMVNPI-SQGRSLPVKI 200
DB 246 SWTKDGEQIENEEDKHFISDDSSLEITIRNVKNDDEAEYVCIAENKAGEQDASIHVKV 305

RESULT 13

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Query Match 15.8%; Score 165; DB 2; Length 475;
Best Local Similarity 33.1%; Pred. No. 1.6e-05;
Matches 52; Conservative 26; Mismatches 69; Indels 10; Gaps 5;
pregnancy-specific glycoprotein - mouse
C/Species: Mus musculus (house mouse)
C/Date: 02-Aug-1996 #sequence revision 02-Aug-1996 #text_change 09-Jul-2004
C/Accession: I76668
R/Rudert, F.; Saunders, A.M.; Thompson, J.A.; Rebstock, S.; Zimmermann, W.A.
Mamm. Genome 3, 262-273, 1992
A/Title: Characterization of murine carcinoembryonic antigen gene family members.
A/Reference number: I57007; MUID:92345715; PMID:1638085
A/Accession: I76668
A/Status: preliminary; translated from GB/EMBL/DBJ
A/Molecule type: mRNA
A/Residues: 1-475 <RES>
A/Cross-references: UNIPROT:Q62056; GB:M83344; NID:g200316; PIDN:AAA39916.1; PID:g200317
C/Genetics:
A/Gene: CGM5
C/Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termin
C/Keywords: glycoprotein
F/1-137/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEA1>
F/399-456/Domain: immunoglobulin homology <IMM>
QY 49 SIGTE--VIGTLRPDYRDRIRLFPENGSLLSDLQADEGTYEVRISITDDTFTGKTNL 106
DB 323 SIATKSIIMGVAR---SRRTVYNGSLLOQDVTEKDSGVYTL---ITDSNMGVETAHV 376
QY 107 TVDV-PTSRPOVLVASTTTLVLESEFTLNCSHENGTKPSYTWLKDQKPLNDSRMLSPD 165
DB 377 QVNVKHLATQPKATDSTVRVQGSVFTCFSDN-TGVSIRLWLFNNORLQTLTERMTLSPS 435
QY 166 QKVLTTIRVLMEDDDLYSCMVNPI-SQGRSLPVKITY 202
DB 436 KCOLWIRTVRKEDAGEYQCEAFNPVSKTSLPVLAV 472
RESULT 14
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Query Match 15.7%; Score 164; DB 2; Length 458;
Best Local Similarity 32.6%; Pred. No. 1.9e-05;
Matches 42; Conservative 24; Mismatches 61; Indels 2; Gaps 2;
C-CAM2a protein isoform precursor - rat
C/Species: Rattus norvegicus (Norway rat)
C/Date: 15-Feb-1997 #sequence revision 13-Mar-1997 #text_change 09-Jul-2004
C/Accession: S68177
R/Lucka, L.; Cichocka, I.; Baeumler, K.; Bechler, K.; Reutter, W.
Eur. J. Biochem. 234, 527-535, 1995
A/Title: A short isoform of carcinoembryonic-antigen-related rat liver cell-cell adhesio
A/Reference number: S68177; MUID:96128184; PMID:8536699
A/Accession: S68177
A/Status: preliminary
A/Molecule type: mRNA
A/Residues: 1-458 <LUC>
A/Cross-references: UNIPROT:Q63093; EMBL:X91137; NID:gl160272; PIDN:CAA62577.1; PID:gl161
F/1-138/Domain: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termin
F/1-33/Domain: signal sequence #status predicted <SIG>
F/34-458/Product: C-CAM2a protein isoform #status predicted <MAT>
F/252-301/Domain: immunoglobulin homology <IMM>

QY 74 LLLSDQLADEGTYEVEISITDDFTGCKTINLTVDVPISRPOVLVASTTVLSEAFTL 133
 Db 284 LFIISNITNNSGTYACFVNNTVTGLSRTTKVNTITVFEVTPQSIQITNTTVKELG-SVTL 342

QY 134 NCSEHNGTKPSYTWLKGKPLNDSRMLLSPDQKVLRTITRVLMBDDDLYSQWENPISQ 193
 Db 343 TCFSKD-TGVSVRWLFNSQSLQTLDRMTLSQDNSTLRIDPIKREDAGDYQCEISNPVSFR 401

QY 194 RSLPVKITV 202
 Db 402 ISHPKLDV 410

Search completed: July 26, 2005, 16:14:16
 Job time : 12.9615 secs

QY 194 RSLPVKITV 202
 Db 402 ISHPKLDV 410

RESULT 15

S23969
 cell-adhesion molecule short form (cell-CAM105) - rat
 N;Alternate names: C-CAM protein
 C;Species: Rattus norvegicus (Norway rat)
 C;Date: 22-Nov-1993 #sequence revision 01-Sep-1995 #text_change 09-Jul-2004
 C;Accession: S23969; S32483; S38826; S10563; S32102
 R;Culic, O.; Huang, Q.H.; Flanagan, D.; Hixson, D.; Lin, S.H.
 Biochem. J. 285, 47-53, 1992
 A;Title: Molecular cloning and expression of a new rat liver cell-CAM105 isoform. Differ
 A;Reference number: S23969; MUID:92344597; PMID:1637321
 A;Accession: S23969
 A;Status: preliminary
 A;Molecule type: mRNA
 A;Residues: 1-458 <CUL>
 A;Cross-references: UNIPROT:P16573; EMBL:Z12019; NID:955858; PIDN:CAA78054.1; PID:g55859
 R;Edlund, M.; Gaardsvoll, H.; Bock, E.; Oebrick, B.
 Eur. J. Biochem. 213, 1109-1116, 1993
 A;Title: Different isoforms and stock-specific variants of the cell adhesion molecule C-
 A;Reference number: S32483; MUID:93279310; PMID:8504806
 A;Accession: S32483
 A;Status: preliminary
 A;Molecule type: mRNA
 A;Residues: 1-458 <EDL>
 A;Cross-references: EMBL:X71122; NID:g287819; PIDN:CAA50435.1; PID:g287820
 R;Cheung, P.H.; Culic, O.; Qiu, Y.; Earley, K.; Thompson, N.; Hixson, D.C.; Lin, S.H.
 Biochem. J. 295, 427-435, 1993
 A;Title: The cytoplasmic domain of C-CAM is required for C-CAM-mediated adhesion functio
 A;Reference number: S38826; MUID:94058980; PMID:8240240
 A;Accession: S38826
 A;Status: preliminary
 A;Molecule type: mRNA
 A;Residues: 1-48, 'K', '50-54', 'A', '56-69', 'G', '71-72', 'LNPD', '77-85', 'D', '87', 'M', '89', 'K', '91', 'G', '93-
 A;Cross-references: EMBL:M92848; NID:g203366; PIDN:AAA16783.1; PID:g203367
 R;Aurivillius, M.; Hansen, O.C.; Lazrek, M.B.S.; Bock, E.; Oebrick, B.
 FEBS Lett. 264, 267-269, 1990
 A;Title: The cell adhesion molecule cell-CAM 105 is an ecto-ATPase and a member of the i
 A;Reference number: S10563; MUID:90292222; PMID:2141577
 A;Accession: S10563
 A;Molecule type: protein
 A;Residues: 'X', '58-66', 'A', '68,121-124', 'F', '126', 'Q', '128-134', 'X', '136-138', 'X', '356-360', 'X', '362
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 F;1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
 F;160-217/Domain: immunoglobulin homology <IMM1>
 F;252-301/Domain: immunoglobulin homology <IMM2>
 F;337-394/Domain: immunoglobulin homology <IMM3>

Query Match 15.7%; Score 164; DB 2; Length 458;
 Best Local Similarity 32.6%; Pred. No. 1.9e-05;
 Matches 42; Conservative 24; Mismatches 61; Indels 2; Gaps 2;

QY 74 LLLSDQLADEGTYEVEISITDDFTGCKTINLTVDVPISRPOVLVASTTVLSEAFTL 133
 Db 284 LFIISNITNNSGTYACFVNNTVTGLSRTTKVNTITVFEVTPQSIQITNTTVKELG-SVTL 342

QY 134 NCSEHNGTKPSYTWLKGKPLNDSRMLLSPDQKVLRTITRVLMBDDDLYSQWENPISQ 193
 Db 343 TCFSKD-TGVSVRWLFNSQSLQTLDRMTLSQDNSTLRIDPIKREDAGDYQCEISNPVSFR 401

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 26, 2005, 15:57:23 ; Search time 52.996 Seconds
(without alignments)
2000.159 Million cell updates/sec

Title: US-10-706-691-22
Perfect score: 1045
Sequence: 1 VNITSPVRLIHGTGKSALL.....NPISQGRSLPVKITVYRRSS 207

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt_03.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1045	100.0	416	2	Q67IP8
2	1041	99.6	416	2	Q8N7I3
3	1032	98.8	367	2	Q6ZWL4
4	1029	98.5	413	2	Q640R3
5	268	25.6	450	2	Q6UX10
6	202.5	19.4	278	2	Q92232
7	199.5	18.1	292	2	Q61354
8	195.5	17.8	235	2	Q6UY47
9	185.5	17.3	445	2	Q75296
10	181	17.3	458	2	Q61351
11	181	17.3	521	2	Q61352
12	180.5	17.3	538	2	Q8C9B4
13	180.5	17.3	645	2	Q6NZB6
14	180.5	17.3	649	2	Q7TMP7
15	180.5	17.3	654	1	LX9_MOUSE
16	179.5	17.2	272	2	Q8R1N5
17	179.5	17.2	340	2	Q61349
18	177.5	17.0	278	2	Q61350
19	177.5	17.0	341	2	Q61353
20	176.5	16.9	475	2	Q62664
21	173.5	16.6	475	2	Q810J1
22	172.5	16.5	475	2	P70161
23	171.5	16.4	471	2	Q9DAY5
24	170.5	16.3	234	2	Q78T27
25	169	16.2	325	2	Q95791
26	168.5	16.1	365	2	Q6VAN5
27	168.5	16.1	372	2	Q6VAN6
28	168.5	16.1	429	2	Q6VAN7
29	168.5	16.1	436	2	Q6VAN8
30	168	16.1	284	2	Q9NX42
31	168	16.1	327	2	Q96IQ7

32	168	16.1	448	2	Q9JHL7	Q9jhl7 rattus norv
33	167.5	16.0	300	2	Q9JHV1	Q9jhy1 rattus norv
34	167	16.0	520	2	Q925P2	Q925p2 mus musculu
35	167	16.0	853	1	NCAL_BOVIN	P31836 bos taurus
36	166.5	15.9	471	2	Q9D2U0	Q9d2u0 mus musculu
37	166.5	15.9	476	2	Q9R038	Q9r038 mus musculu
38	166	15.9	838	2	Q8BQ96	Q8bq96 mus musculu
39	166	15.9	838	2	Q8C4B2	Q8c4b2 mus musculu
40	166	15.9	858	1	NCAL_RAT	P13596 rattus norv
41	165.5	15.8	229	2	Q9R121	Q9r121 rattus norv
42	165	15.8	475	2	Q62056	Q62056 mus musculu
43	164.5	15.7	368	2	Q6RWT3	Q6rwt3 bos taurus
44	164.5	15.7	375	2	Q6RWT4	Q6rwt4 bos taurus
45	164.5	15.7	386	2	Q60962	Q60962 mus musculu

ALIGNMENTS

RESULT 1
Q67IP8
ID Q67IP8 PRELIMINARY; PRT; 416 AA.
AC Q67IP8; 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Hypothetical protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Liver;
RA Shen S., Moh M.C.;
RT "A gene related to human hepatocellular carcinoma.";
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY047587; AAQ93018.1; -
DR InterPro; IPR003599; Ig_2.
DR InterPro; IPR007110; Ig_LIKE.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig_1.
DR SMART; SM00409; IGC2; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PSS0835; IG_LIKE; 1.
KW Hypothetical protein.
SQ SEQUENCE 416 AA; 46055 MW; 7B8882298BBB4ABF CRC64;

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Best Local Similarity 100.0%; Pred. No. 3.9e-74;
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Qy	1	VNITSPVRLIHGTGKSALLSVQYSTSSDRPVVKQWKDKPKVTVVQSIGTEVIGTLRP 60
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Qy	61	DYDRIRLRFNGSLLSLDLQADGTYEVEISITDDTFTGCKTINLTVDVPISRPQVLVA 120
Db	94	DYDRIRLRFNGSLLSLDLQADGTYEVEISITDDTFTGCKTINLTVDVPISRPQVLVA 153
Qy	121	STTVLSEAFNLNCSHENGTKPSYTWLKDGPILLNDSRMLLSPDQKVLITRVLVMDDD 180
Db	154	STTVLSEAFNLNCSHENGTKPSYTWLKDGPILLNDSRMLLSPDQKVLITRVLVMDDD 213
Qy	181	LYSCWVENPISQGRSLPVKITVYRRSS 207
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RESULT 2
Q8N7I3
ID Q8N7I3 PRELIMINARY; PRT; 416 AA.
AC Q8N7I3;

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DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 28, Last annotation update)
DE Hypothetical protein FLJ25530.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RC
RP TISSUE=Brain;
RA Tashiro H., Yamazaki M., Watanabe K., Kumagai A., Itakura S.,
RA Fukuzumi Y., Fujimori Y., Komiyama M., Suzuki Y., Hata H.,
RA Nakagawa K., Mizuno S., Morinaga M., Kawamura M., Sugiyama T.,
RA Irie R., Otsuki T., Sato H., Nishikawa T., Sugiyama A., Kawakami B.,
RA Nagai K., Isogai T., Sugano S.;
RA Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK098396; BAC05297.1; -.
DR InterPro; IPR007110; IG-like.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 1.
SQ SEQUENCE 416 AA; 45994 MW; 47120CA9A00BE1CF CRC64;

Query Match 99.6%; Score 1041; DB 2; Length 416;
Best Local Similarity 99.5%; Pred. No. 8e-74; Mismatches 0; Indels 0; Gaps 0;
Matches 206; Conservative 1;

QY 1 VNITSPVRLIHGTGKSGALLSVQSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 60
DB 34 VNITSPVRLIHGTGKSGALLSVQSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 93

QY 61 DYDRIRLFENGSLLSLDLQADSGTYEVEISITDDTFTGKKTINLTVDVPISRPQVLVA 120
DB 94 DYDRIRLFENGSLLSLDLQADSGTYEVEISITDDTFTGKKTINLTVDVPISRPQVLVA 153

QY 121 STTVLESEAFTLNCSHENGTPSYTWLKGKPLNDSRMLLSPDQKVLITITVLMEDDD 180
DB 154 STTVLESEAFTLNCSHENGTPSYTWLKGKPLNDSRMLLSPDQKVLITITVLMEDDD 213

QY 181 LYSCWVENPISQGRSLPVKITVYRRSS 207
DB 214 LYSCWVENPISQGRSLPVKITVYRRSS 240

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AC Q6ZWL4;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DE Hypothetical protein FLJ16002.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RC TISSUE=Brain;
RA Suzuki O., Sasaki N., Aotsuka S., Shoji T., Ichihara T., Shiohata N.,
RA Matsumoto K., Hirano M., Sano S., Nomura R., Yoshikawa Y.,
RA Matsumura Y., Moriya S., Chiba E., Momiyama H., Onogawa S.,
RA Kaeriyama S., Satoh N., Matsunawa H., Takahashi E., Katsoka R.,
RA Kuga N., Kuroda A., Satoh I., Kanata K., Takami S., Terashima Y.,
RA Watanabe M., Ishiyama T., Irie R., Otsuki T., Sato H., Ota T.,
RA Wakamatsu A., Ishii S., Yamamoto J., Isono Y., Kawai-Hio Y., Saito K.,
RA Nishikawa T., Kimura K., Yamashita H., Matsuo K., Nakamura Y.,
RA Sekine M., Kikuchi H., Kanda K., Wagatsuma M., Murakawa K.,
RA Kanehori K., Takahashi-Fujii A., Oshima A., Sugiyama A., Kawakami B.,
RA Suzuki Y., Sugano S., Nagahari K., Masuho Y., Nagai K., Isogai T.;
RA Submitted (JUL-2003) to the EMBL/GenBank/DBJ databases.
RL

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DR EMBL; AK125595; BAC85486.1; -.
DR GO; GO:0004872; F:receptor activity; IEA.
DR InterPro; IPR003599; IG-.
DR InterPro; IPR007110; IG-like.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 1.
KW Receptor.
SQ SEQUENCE 367 AA; 40456 MW; 35956FA245A408F0 CRC64;

Query Match 98.8%; Score 1032; DB 2; Length 367;
Best Local Similarity 99.0%; Pred. No. 3.5e-73;
Matches 205; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 VNITSPVRLIHGTGKSGALLSVQSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 60
DB 34 VNITSPVRLIHGTGKSGALLSVQSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 93

QY 61 DYDRIRLFENGSLLSLDLQADSGTYEVEISITDDTFTGKKTINLTVDVPISRPQVLVA 120
DB 94 DYDRIRLFENGSLLSLDLQADSGTYEVEISITDDTFTGKKTINLTVDVPISRPQVLVA 153

QY 121 STTVLESEAFTLNCSHENGTPSYTWLKGKPLNDSRMLLSPDQKVLITITVLMEDDD 180
DB 154 STTVLESEAFTLNCSHENGTPSYTWLKGKPLNDSRMLLSPDQKVLITITVLMEDDD 213

QY 181 LYSCWVENPISQGRSLPVKITVYRRSS 207
DB 214 LYSCWVENPISQGRSLPVKITVYRRSS 240

RESULT 4
Q640R3 PRELIMINARY; PRT; 413 AA.
ID Q640R3
AC Q640R3;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE 2900042E01Rik protein (Fragment).
GN Name:2900042E01Rik;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RC SEQUENCE FROM N.A.
RA STRAIN=C57BL/6; TISSUE=Brain;
RX PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Rana S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Helton E., Kettman M., Madan A., Shevchenko Y., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [2]
RC SEQUENCE FROM N.A.
RA STRAIN=C57BL/6; TISSUE=Brain;

```

RA Director MGC Project;
RL Submitted (SEP-2004) to the EMBL/GenBank/DBJ databases.

DR EMBL: BC082537; AAH82537.1; --
FT NON_TER 1 1
SQ SEQUENCE 413 AA; 45665 MW; B6EFC2AD6D2CA3C1 CRC64;

Query Match 98.5%; Score 1029; DB 2; Length 413;
Best Local Similarity 98.6%; Pred. No. 7e-73;
Matches 204; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 VNITSPVRLHGTGKSAALLSVQYSTSDRPVVKQAKRKPVTVVQSIGTEVIGTLRP 60
DB 29 VNITSPVRLHGTGKSAALLSVQYSTSDRPVVKQAKRKPVTVVQSIGTEVIGTLRP 88

QY 61 DYDRIRLRFENGSLLSLDLQADEGTYEVEISITDDTGTGKTNLTVDVPISRPQVLA 120
DB 89 DYDRIRLRFENGSLLSLDLQADEGTYEVEISITDDTGTGKTNLTVDVPISRPQVLA 148

QY 121 STTVLESEAFNLCSHENGTKPSYTLWKDGKPLNDSRMLLSPDQKVLITRVLMEDDDD 180
DB 149 STTVLESEAFNLCSHENGTKPSYTLWKDGKPLNDSRMLLSPDQKVLITRVLMEDDDD 208

QY 181 LYSVMENPISQGRSLPVKITVYRRSS 207
DB 209 LYSVMENPISQGRSLPVKITVYRRSS 235

RESULT 5

QY Q6UX10 PRELIMINARY; PRT; 450 AA.
AC Q6UX10;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE WLKV305.
GN ORFNames=UNQ305;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]

RP SEQUENCE FROM N.A.
RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
RA Eaton D., Foster J., Grimaldi C., Gu Q., Haas P.E., Heldens S.,
RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
RA Seehagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
RA Vandlen R., Watanabe C., Wiedand D., Woods K., Xie M.H., Yanaura D.,
RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
RA Godowski P.;
RT "The secreted protein discovery initiative (SPDI), a large-scale
RT effort to identify novel human secreted and transmembrane proteins: a
RT bioinformatics assessment.";
RL Genome Res. 13:2265-2270(2003).

DR EMBL: AY358345; AAQ88711.1; --
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_c2.
DR Pfam; PF00047; IG 1.
DR SMART; SM00409; IG 3.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 2.
SQ SEQUENCE 450 AA; 50114 MW; A22FF822CC3CB226 CRC64;

Query Match 25.6%; Score 268; DB 2; Length 450;
Best Local Similarity 31.9%; Pred. No. 7.3e-13;
Matches 67; Conservative 43; Mismatches 90; Indels 10; Gaps 7;

QY 1 VNITSPVRLHGTGKSAALLSVQYS--STSSDRPVPVKQAKR--DKPVTVVQSIGTEVIG 56
DB 20 LKVTVPSTHVGVRGQALYLPVHYGFHTPASDIQII-WLFRPHTMPKYLGSYNKSVVP 78

QY 57 TLRPDYDRIRLRF-ENGSLLSLDLQADEGTYEVEISIT-DDTGTGKTNLTVDVPISR 114
DB 79 DL--EYQHKFTMPNPASLLINLPQFPDEGNYIVKVNIOGNGTILSASOKIQVTVDPPVTK 136
QY 115 PQVLV-ASTTVLESEAFNLCSHENGTKPSYTLWKDGKPLNDSRMLLSPDQKVLITR 173
DB 137 PVQIHPPSGAVEYVGNMTLTCHEVGGRLAYQMLKNGRPVHTSTSYFSQNNTLHIAP 196
QY 174 VLMEDDDLYSVMENPISQGRSLPVKITVY 203
DB 197 VTREDIGNYSCLVRNPVSEMSDIIMPIY 226

RESULT 6

QY Q99232 PRELIMINARY; PRT; 278 AA.
AC Q99232;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Carcinoembryonic antigen family member protein precursor.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CD-1; TISSUE=Colon;
RX MEDLINE=91093141; PubMed=1985902;
RA Turbide C., Rojas M., Stanners C.P., Beauchemin N.;
RT "A mouse carcinoembryonic antigen gene family member is a calcium-
RT dependent cell adhesion molecule.";
RL J. Biol. Chem. 266:309-315(1991).
DR EMBL: X53084; CAA37251.1; --
DR PIR; A39037; A39037.
DR HSSP; Q61353; 1L6Z.
DR MGD; MGI:1347245; Ceacam1.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_c2.
DR Pfam; PF00047; IG 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
KW Signal.
FT SIGNAL 1 34 Potential.
FT CHAIN 35 278 Potential.
SQ SEQUENCE 278 AA; 29943 MW; 1A9CEBF18770258C CRC64;

Query Match 19.4%; Score 202.5; DB 2; Length 278;
Best Local Similarity 32.1%; Pred. No. 5.9e-08;
Matches 54; Conservative 31; Mismatches 74; Indels 9; Gaps 5;
QY 40 RDKPVTVVQSIGTEVIGTLR----PYDRIRLRFENGSLLSLDLQADEGTYEVEISITD 95
DB 69 KGNPVSTNAEIVHFPVTGNTTTPGPAHSGRETIVYSGSLLIQRVTVDGTGVYTI--MTD 126
QY 96 DTF-TGKTNLTVDVPISRPQVLAFTTVLESEAFNLCSHENGTKPSYTLWKDGKPL 154
DB 127 ENFRTEATVQFVHQVPTQPSLQVNTTIVKEL-DSVTLTCL-SNDIGANTQWLFNSQSL 184
QY 155 LNDSRMLSPDQKVLITRVLMEDDDLYSVMENPISQGRSLPVKITV 202
DB 185 QLTERMTLSQNNILRDIPIKREDAGEYQCEISNPVSVKRSNSIKLDI 232

RESULT 7

QY Q61354 PRELIMINARY; PRT; 341 AA.
AC Q61354;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)

OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX	NCBI_TaxID=10090;
LN	[1]
RP	SEQUENCE FROM N.A.
RC	STRAIN=CD1; TISSUE=Colon;
FX	MEDLINE=93273228; PubMed=8500759; DOI=10.1016/0378-1119(93)90716-C;
RA	McCuig K., Rosenberg M., Turbide C., Beauchemin N., Nedellec P.;
RT	Expression of the Bsp gene and characterization of mouse colon
RT	biliary glycoprotein isoforms.";
RL	Gene 127:173-183 (1993).
PN	[2]

127	SEQUENCE FROM N.A.
RP	STRAIN=CD1; TISSUE=Colon;
RC	Huang D.C., Huang X.F., Novel M., Novel G.;
RA	Submitted (JUN-1993) to the EMBL/GenBank/DBJ databases.
RL	EMBL; X67281; CAA47698.1; -.
DR	PIR; S34338; S34338.
DR	HSP; Q61353; 1L6Z.
DR	MGD; MGI:1347245; Ceacam1.
DR	InterPro; IPR007110; Ig-Like.
DR	InterPro; IPR003598; Ig_c2.
DR	Pfam; PF00047; Ig; 3.
DR	SMART; SM00408; IGC2; 3.
DR	PROSITE; PS50835; IG_Like; 3.
KW	Signal.

[illegible]

RESULT 12	
Q8C9E4	
ID	Q8C9E4 PRELIMINARY; PRT; 538 AA.
AC	Q8C9E4;
DT	01-MAR-2003 (TrEMBLrel. 23, Created)
DT	01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT	01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE	Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched
DE	de library, clone:A630078M16 product:lymphocyte antigen 9, full insert
DE	sequence. (Fragment).
GN	Name=Ly9;
OS	Mus musculus (Mouse).
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX	NCBI TaxID=10090;

RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Thymus;
RX MEDLINE=9272953; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA Carninci P., Hayashizaki Y.
RT "High-efficiency full-length cDNA cloning.";
RL Meth. Enzymol. 303:19-44(1999).
[2]
RN
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Thymus;
RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
RA RIKEN FANTOM Consortium;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL

DR	PROSITE; PS0835; IG LIKE; 2.	
KW	Antigen; Cell adhesion; Direct protein sequencing; Glycoprotein;	
KW	Immunoglobulin domain; Polymorphism; Repeat; Signal; Transmembrane.	
FT	SIGNAL 1 47	
FT	CHAIN 48 654	T-lymphocyte surface antigen Ly-9.
FT	DOMAIN 48 453	Extracellular (Potential).
FT	TRANSMEM 454 474	Potential.
FT	DOMAIN 475 654	Cytoplasmic (Potential).
FT	DOMAIN 48 158	Ig-like V-type 1.
FT	DOMAIN 159 243	Ig-like C2-type 1.
FT	DOMAIN 250 362	Ig-like V-type 2.
FT	DOMAIN 353 453	Ig-like C2-type 2.
FT	DISULFID 172 242	Potential.
FT	DISULFID 178 222	Potential.
FT	DISULFID 376 445	Potential.
FT	DISULFID 382 426	Potential.
FT	CARBOHYD 68 68	N-linked (GlcNAc. .) (Potential).
FT	CARBOHYD 120 120	N-linked (GlcNAc. .) (Potential).
FT	CARBOHYD 231 231	N-linked (GlcNAc. .) (Potential).
FT	CARBOHYD 284 284	N-linked (GlcNAc. .) (Potential).
FT	CARBOHYD 390 390	N-linked (GlcNAc. .) (Potential).
FT	CARBOHYD 412 412	N-linked (GlcNAc. .) (Potential).
FT	CARBOHYD 423 423	N-linked (GlcNAc. .) (Potential).
FT	CARBOHYD 434 434	N-linked (GlcNAc. .) (Potential).
FT	VARIANT 10 10	D -> G (in Ly9-1).
FT	VARIANT 14 14	G -> S (in Ly9-1).
FT	VARIANT 79 79	I -> T (in Ly9-1).
FT	VARIANT 91 91	F -> S (in Ly9-1).
FT	VARIANT 130 130	H -> Y (in Ly9-1).
FT	VARIANT 139 139	I -> T (in Ly9-1).
FT	VARIANT 362 362	P -> S.
FT	VARIANT 366 366	K -> N (in Ly9-1).
FT	VARIANT 377 377	E -> K (in Ly9-1).
FT	VARIANT 550 550	M -> I (in Ly9-1).
FT	VARIANT 592 592	G -> E (in Ly9-1).
FT	CONFLICT 283 283	F -> L (in Ref. 2).
FT	CONFLICT 499 499	T -> P (in Ref. 2).
FT	CONFLICT 560 560	V -> L (in Ref. 2).
FT	CONFLICT 647 654	TPTYENFT -> SPYL (in Ref. 2).
SQ	SEQUENCE 654 AA; 73142 MW; 1CBHE9708AE8EE7 CRC64;	
Query Match 17.3%; Score 180.5; DB 1; Length 654;		
Best Local Similarity 27.5%; Pred. No. 9e-06;		
Matches 55; Conservative 40; Mismatches 90; Indels 15; Gaps 7;		
QY	5 SPVRLIHGTVKSAALLSVQYSTSDRPVVKQKLRDPVTVVQSIGTEVIGTLRPDYRD 64	
Db	50 TPPTVISGMLGGSVTFSLNISKDAIEHII-WNC---PPKALALVFYKKDITILDKGYNG 105	
QY	65 RIRLFENG-SLLSLQLADEGTEVEISITDDTFTGKTNLTVDVPISRPOVLVASTT 123	
Db	106 LUKVSEGGVLYMSNLTKSDSGSYHAQINQRNVIITTNKEFTLHIYEKLQRPQIIVESVT 165	
QY	124 VLEL-SEATLNCSEHGKPS--YTWLKDGRPLNDSRMILSPDQKVLITIRVLMEDDD 180	
Db	166 PSDTDSCTFLICT-VGKTQDSVQYSWTRE-----DTHLNTYDGSHTLRVSQSVCDDL 218	
QY	181 LYSQMVENPISQGRSLPVKI 200	
Db	219 PYTCKAWNEVSQNSQPVRI 238	

Search completed: July 26, 2005, 16:13:00
Job time : 53.996 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 26, 2005, 15:54:21 ; Search time 117.856 Seconds
(without alignments)
1365.166 Million cell updates/sec

Title: us-10-706-691-16
Perfect score: 2122
Sequence: 1 MKRERGALSRSALRLAPP.....TAGVHIREQDEAGPVEISA 416

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A Geneseq_16Dec04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*
8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	2122	100.0	416	7	ABG75379 Predicted
2	2122	100.0	416	7	ABG75377 Human INS
3	2122	100.0	416	8	ADO47892 Human pro
4	2122	100.0	416	8	ADS11056 Human the
5	1992	93.9	418	7	ABG75378 Murine IN
6	1962	92.5	383	8	ADO47895 Human mat
7	1478.5	69.7	367	8	ADG65357 Novel hum
8	1472	69.4	298	5	AAE14784 Human imm
9	1352	63.7	270	8	ADO47887 Human pro
10	1352	63.7	270	8	ADS11055 Human the
11	1205	56.8	246	7	ABG75380 INSP052 e
12	1192	56.2	237	8	ADO47890 Human pro
13	1189	56.0	256	8	ADM87341 Human mat
14	1178	55.5	256	4	AAE24238 Human EST
15	1178	55.5	256	8	ADM87787 Human EST
16	1178	55.5	256	8	ADS12269 Human the
17	1178	55.5	256	8	ADS12268 Human the
18	1157	54.5	224	5	AAE26421 Human tra
19	570	26.9	114	7	ABG75371 Human INS
20	522	24.6	100	7	ABG75376 Human INS
21	484	22.8	188	7	ABG75372 Human INS
22	282	13.3	338	4	AAW78339 Human pro
23	282	13.3	450	2	AAV13398 Amino aci
24	282	13.3	450	3	ADC78632 Human PRO
25	282	13.3	450	4	AAAB80266 Human PRO

ALIGNMENTS

RESULT 1

ABG75379
ID ABG75379 standard; protein; 416 AA.

XX AC ABG75379;

DT 22-APR-2004 (first entry)

DE Predicted INSP052 protein.

XX

INSP052; human; cell proliferation; autoimmune disease; inflammation; cardiovascular disease; neurological disease; psychiatric disease; developmental disease; metabolic disorder; infection; immunoglobulin domain-containing cell surface recognition molecule.

XX Unidentified.

OS WO2003093316-A2.

PN 13-NOV-2003.

PD 30-APR-2003; 2003WO-GB001851.

XX 30-APR-2002; 2002GB-00009884.

PR (ARES-) ARES TRADING SA.

XX Davids AR, Fagan RJ, Phelps CB, Power C;

WPI; 2003-903655/82.

DR N-PSDB; ACH01277.

XX New INSP052 polypeptides and nucleic acids, useful in diagnosing and treating cell proliferative, autoimmune/inflammatory, cardiovascular, neurological, psychiatric, developmental, genetic or metabolic disorder.
Example 2; Fig 5; Opp; English.

CC The present invention provides the protein and coding sequences of a novel human immunoglobulin domain-containing cell surface recognition molecule known as INSP052. The polypeptide is useful as immunoglobulin domain-containing cell surface recognition molecule. The sequences may also be used in therapy or diagnosing a disease or in the manufacture of a medicament for treating a disease. The disease is a cell proliferative, autoimmune/inflammatory, cardiovascular, neurological, psychiatric, developmental, genetic or metabolic disorder, an infection or other pathological condition. The polypeptides and nucleic acids are essential to the structural integrity and homeostatic functioning of most tissues.

AAU12360 Human PRO
AAU81958 Human PRO
ABU71644 Human PRO
ABO17804 Novel hum
ABU71499 Human PRO
ABU81058 Human PRO
ABU71945 Human sec
ABO01828 Novel hum
ABU66758 Human PRO
ABU54401 Human sec
ABO47416 Human sec
ABU59839 Novel sec
ABO25029 Human sec
ABU64553 Human sec
ABU67399 Human sec
ABO14919 Human sec
ABU67034 Human sec
ABU69676 Novel hum
ABO14858 Human sec
ADA45897 Novel hum

26 282 13.3 450 4 AAU12360
27 282 13.3 450 5 AAU81958
28 282 13.3 450 6 ABU71644
29 282 13.3 450 6 ABO17804
30 282 13.3 450 6 ABU71499
31 282 13.3 450 6 ABU81058
32 282 13.3 450 6 ABU71945
33 282 13.3 450 6 ABO01828
34 282 13.3 450 6 ABU66758
35 282 13.3 450 6 ABU54401
36 282 13.3 450 6 ABO47416
37 282 13.3 450 6 ABU59839
38 282 13.3 450 6 ABO25029
39 282 13.3 450 6 ABU64553
40 282 13.3 450 6 ABU67399
41 282 13.3 450 6 ABO14919
42 282 13.3 450 6 ABU67034
43 282 13.3 450 6 ABU69676
44 282 13.3 450 6 ABO14858
45 282 13.3 450 6 ADA45897

CC The present sequence is a polypeptide shown in the invention

XX Sequence 416 AA;

Query Match 100.0%; Score 2122; DB 7; Length 416;
 Best Local Similarity 100.0%; Pred. No. 2.4e-146;
 Matches 416; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKRERGALSRRALRLAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKALLSVQYSST 60
 |||||
 Db 1 MKRERGALSRRALRLAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKALLSVQYSST 60
 |||||

Qy 61 SSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRPDYDRIRLRFENGSLLLSDQLADEGTY 120
 |||||
 Db 61 SSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRPDYDRIRLRFENGSLLLSDQLADEGTY 120
 |||||

Qy 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLELSEAFTLNCSEHNGTKPSYTW 180
 |||||
 Db 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLELSEAFTLNCSEHNGTKPSYTW 180
 |||||

Qy 181 LKDGKPLNDSRMLLSPDQKVLITRVLMEDDDLVSCWENPISQGRSLPVKITVYRRSS 240
 |||||
 Db 181 LKDGKPLNDSRMLLSPDQKVLITRVLMEDDDLVSCWENPISQGRSLPVKITVYRRSS 240
 |||||

Qy 241 LYIILSTGGIFLLVTLVTVCAWKPSKRKKKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
 |||||
 Db 241 LYIILSTGGIFLLVTLVTVCAWKPSKRKKKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
 |||||

Qy 301 EQERKNPMALYILKDKDSPETEENPAPEPRSATPEPGPGYSVPVPGSPGLPIRSARR 360
 |||||
 Db 301 EQERKNPMALYILKDKDSPETEENPAPEPRSATPEPGPGYSVPVPGSPGLPIRSARR 360
 |||||

Qy 361 YPRSPARSPATGRTHSSPPRAPSPGRSRSASRTLRAGVHIIREQDEAGPVEISA 416
 |||||
 Db 361 YPRSPARSPATGRTHSSPPRAPSPGRSRSASRTLRAGVHIIREQDEAGPVEISA 416
 |||||

RESULT 2

ABG75377
 ID ABG75377 standard; protein; 416 AA.
 AC ABG75377;
 DT 22-APR-2004 (first entry)
 XX Human INSP052 complete protein.
 KW INSP052; human; cell proliferation; autoimmune disease; inflammation;
 KW cardiovascular disease; neurological disease; psychiatric disease;
 KW developmental disease; metabolic disorder; infection;
 KW immunoglobulin domain-containing cell surface recognition molecule.
 XX OS Homo sapiens.
 XX PN W02003093316-A2.
 XX PD 13-NOV-2003.
 XX PF 30-APR-2003; 2003WO-GB001851.
 XX PR 30-APR-2002; 2002GB-00009884.
 XX XX (ARES-) ARES TRADING SA.
 XX PI Davids AR, Fagan RJ, Phelps CB, Power C;
 XX DR WPI; 2003-903655/82.
 XX DR N-PSDB; ACH01275.
 XX FT New INSP052 polypeptides and nucleic acids, useful in diagnosing and
 XX PT treating cell proliferative, autoimmune/inflammatory, cardiovascular,
 XX PT neurological, psychiatric, developmental, genetic or metabolic disorder.
 XX XX

PS Claim 1; Page 67; Opp; English.

XX The present invention provides the protein and coding sequences of a
 CC novel human immunoglobulin domain-containing cell surface recognition
 CC molecule known as INSP052. The polypeptide is useful as immunoglobulin
 CC domain-containing cell surface recognition molecule. The sequences may
 CC also be used in therapy or diagnosing a disease or in the manufacture of
 CC a medicament for treating a disease. The disease is a cell proliferative,
 CC autoimmune/inflammatory, cardiovascular, neurological, psychiatric,
 CC developmental, genetic or metabolic disorder, an infection or other
 CC pathological condition. The polypeptides and nucleic acids are essential
 CC to the structural integrity and homeostatic functioning of most tissues.
 CC The present sequence is a polypeptide shown in the invention

XX Sequence 416 AA;

Query Match 100.0%; Score 2122; DB 7; Length 416;
 Best Local Similarity 100.0%; Pred. No. 2.4e-146;
 Matches 416; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKRERGALSRRALRLAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKALLSVQYSST 60
 |||||
 Db 1 MKRERGALSRRALRLAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKALLSVQYSST 60
 |||||

Qy 61 SSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRPDYDRIRLRFENGSLLLSDQLADEGTY 120
 |||||
 Db 61 SSDRPVVKWQKRDKPVTVVQSIGTEVIGTLRPDYDRIRLRFENGSLLLSDQLADEGTY 120
 |||||

Qy 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLELSEAFTLNCSEHNGTKPSYTW 180
 |||||
 Db 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLELSEAFTLNCSEHNGTKPSYTW 180
 |||||

Qy 181 LKDGKPLNDSRMLLSPDQKVLITRVLMEDDDLVSCWENPISQGRSLPVKITVYRRSS 240
 |||||
 Db 181 LKDGKPLNDSRMLLSPDQKVLITRVLMEDDDLVSCWENPISQGRSLPVKITVYRRSS 240
 |||||

Qy 241 LYIILSTGGIFLLVTLVTVCAWKPSKRKKKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
 |||||
 Db 241 LYIILSTGGIFLLVTLVTVCAWKPSKRKKKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
 |||||

Qy 301 EQERKNPMALYILKDKDSPETEENPAPEPRSATPEPGPGYSVPVPGSPGLPIRSARR 360
 |||||
 Db 301 EQERKNPMALYILKDKDSPETEENPAPEPRSATPEPGPGYSVPVPGSPGLPIRSARR 360
 |||||

Qy 361 YPRSPARSPATGRTHSSPPRAPSPGRSRSASRTLRAGVHIIREQDEAGPVEISA 416
 |||||
 Db 361 YPRSPARSPATGRTHSSPPRAPSPGRSRSASRTLRAGVHIIREQDEAGPVEISA 416
 |||||

RESULT 3

ADO47892
 ID ADO47892 standard; protein; 416 AA.
 AC ADO47892;
 DT 15-JUL-2004 (first entry)
 XX Human protein SEQ ID NO:9.
 XX KW human, virucide; anti-HIV; cytostatic; antiinflammatory; antiallergic;
 KW immunosuppressive; antiarteriosclerotic; hypotensive; osteopathic;
 KW antianaemic; neuroprotective; nootropic; antiparkinsonian; antiasthmatic;
 KW haemostatic; antidiabetic; cardiant; HIV; viral infection; cancer;
 KW inflammation; allergy; graft rejection; atherosclerosis; hypertension;
 KW osteoporosis; anaemia; Alzheimer's disease; Parkinson's disease; asthma;
 KW diabetes; myocardial infarction; haemophilia.
 XX OS Homo sapiens.
 XX PN W02004007672-A2.
 XX PD 22-JAN-2004.
 XX XX

PF 09-JUL-2003; 2003WO-US021703.
 XX
 PR 12-JUL-2002; 2002US-0395402P.
 XX
 PA (NUVE-) NUVELO INC.
 XX
 PI Rupp F, Wang J, Zhou P, Wehrman T, Wang ZW, Tang YT;
 XX
 PI WPI; 2004-122914/12.
 DR N-PSDB; ADO47891.
 XX
 PT New isolated polypeptides and polynucleotides useful in diagnostics,
 PT forensics, in preventing or treating diseases such as HIV and cancer, and
 PT as drug targets.
 XX
 PS Claim 10; SEQ ID NO 9; 205pp; English.
 XX
 CC The invention relates to novel isolated polynucleotides and polypeptides
 CC encoded by them. Also included are mutants or variants of the
 CC polynucleotides and polypeptides. A polypeptide of the invention has
 CC virucide, anti-HIV, cytostatic, antiinflammatory, anti-allergic,
 CC immunosuppressive, antiarteriosclerotic, hypotensive, osteopathic,
 CC antianaemic, neuroprotective, nootropic, antiparkinsonian, antiaschmatic,
 CC haemostatic, antidiabetic, and cardiant activity. The composition and
 CC methods are useful in diagnostics, forensics, gene or chromosome mapping,
 CC identification of mutations responsible for genetic disorders or other
 CC traits, in assessing biodiversity, or in producing many other types of
 CC data and products dependent on DNA and amino acid sequences. They may
 CC also be used in preventing or treating diseases (e.g. HIV and other viral
 CC infections, cancer, inflammation, allergies, graft rejection,
 CC atherosclerosis, hypertension, osteoporosis, anaemia, Alzheimer's
 CC disease, Parkinson's disease, asthma, diabetes, myocardial infarction or
 CC haemophilia). They may also be used as targets in drug screening. The
 CC present sequence represents a polypeptide of the invention.
 XX
 SQ Sequence 416 AA;
 Query Match 100.0%; Score 2122; DB 8; Length 416;
 Best Local Similarity 100.0%; Pred. No. 2.4e-146;
 Matches 416; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MKRERGALSASRALRLAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSAALLSVQYSST 60
 DB 1 MKRERGALSASRALRLAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSAALLSVQYSST 60
 QY 61 SSDRPVVKWQLKRDKPVTWQSIGTEVIGTLRPPDYRDRIRLFENGSLLSDLQADSGTY 120
 DB 61 SSDRPVVKWQLKRDKPVTWQSIGTEVIGTLRPPDYRDRIRLFENGSLLSDLQADSGTY 120
 QY 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVELESAFTLNCSHENGTKPSYTW 180
 DB 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVELESAFTLNCSHENGTKPSYTW 180
 QY 181 LKDGKPLNDSRMLLSPDQKVLITRVLMEDEDDLYSCWENPISQGRSLPKVITVYRRSS 240
 DB 181 LKDGKPLNDSRMLLSPDQKVLITRVLMEDEDDLYSCWENPISQGRSLPKVITVYRRSS 240
 QY 241 LYIILSTGGIFLLVTLTVCAWKPSKRKQKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
 DB 241 LYIILSTGGIFLLVTLTVCAWKPSKRKQKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
 QY 301 EQERKNPMALYILKDKSPETEENPAPEPRSATPEGPGYSVPVGRSPGLPIRSARR 360
 DB 301 EQERKNPMALYILKDKSPETEENPAPEPRSATPEGPGYSVPVGRSPGLPIRSARR 360
 QY 361 YPRSPARSPATGRTHSSPPRSPSPGRSRSASRTLRTAGVHIIREQDEAGPVEISA 416
 DB 361 YPRSPARSPATGRTHSSPPRSPSPGRSRSASRTLRTAGVHIIREQDEAGPVEISA 416

RESULT 4
 ADS11056
 ID ADS11056 standard; protein; 416 AA.

XX ADS11056;
 AC
 XX 16-DEC-2004 (first entry)
 DT
 DE Human therapeutic protein - SEQ ID 1293.
 XX
 KW antiinflammatory; neuroprotective; antianaemic; cytostatic; vulnerary;
 KW inflammatory; haematopoiesis; immunity; neurodegenerative; stem cell;
 KW aplastic anaemia; cancer; wound healing; gene therapy.
 XX
 OS Homo sapiens.
 XX
 PN WO2004080148-A2.
 XX
 PD 23-SEP-2004.
 XX
 PF 30-SEP-2003; 2003WO-US030720.
 XX
 PR 02-OCT-2002; 2002US-0416186P.
 XX
 PA (NUVE-) NUVELO INC.
 XX
 PI Tang YT, Asundi V, Ren F, Zhang J, Wehrman T, Wang Z, Ma Y;
 PI Wang D, Chen R, Zhao QA, Wang J, Ghosh M, Xue AJ, Weng G, Zhou P;
 XX
 DR WPI; 2004-668857/65.
 DR N-PSDB; ADS10372.
 XX
 CC New polynucleotide, useful in preparing a composition for diagnosing or
 CC treating inflammatory, neurodegenerative or stem cell disorders, e.g.,
 CC aplastic anemia or cancer for promoting wound healing.
 XX
 PS Claim 20; SEQ ID NO 1293; 718pp; English.
 XX
 CC The invention relates to a novel isolated polynucleotide and the encoded
 CC polypeptide. The molecules of the invention demonstrate antiinflammatory,
 CC neuroprotective, antianaemic, cytostatic and vulnerary activities and may
 CC be useful in preparing a composition for diagnosing or treating
 CC inflammatory, haematopoietic, immune, neurodegenerative or stem cell
 CC disorders, such as aplastic anaemia or cancer, as well as for promoting
 CC wound healing. The molecules may also be utilised during gene therapy
 CC procedures. The current sequence is that of a human therapeutic protein
 CC of the invention. The current sequence is not shown explicitly within the
 CC specification but can be accessed from the WIPO web-site.
 XX
 SQ Sequence 416 AA;
 Query Match 100.0%; Score 2122; DB 8; Length 416;
 Best Local Similarity 100.0%; Pred. No. 2.4e-146;
 Matches 416; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MKRERGALSASRALRLAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSAALLSVQYSST 60
 DB 1 MKRERGALSASRALRLAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSAALLSVQYSST 60
 QY 61 SSDRPVVKWQLKRDKPVTWQSIGTEVIGTLRPPDYRDRIRLFENGSLLSDLQADSGTY 120
 DB 61 SSDRPVVKWQLKRDKPVTWQSIGTEVIGTLRPPDYRDRIRLFENGSLLSDLQADSGTY 120
 QY 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVELESAFTLNCSHENGTKPSYTW 180
 DB 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVELESAFTLNCSHENGTKPSYTW 180
 QY 181 LKDGKPLNDSRMLLSPDQKVLITRVLMEDEDDLYSCWENPISQGRSLPKVITVYRRSS 240
 DB 181 LKDGKPLNDSRMLLSPDQKVLITRVLMEDEDDLYSCWENPISQGRSLPKVITVYRRSS 240
 QY 241 LYIILSTGGIFLLVTLTVCAWKPSKRKQKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
 DB 241 LYIILSTGGIFLLVTLTVCAWKPSKRKQKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
 QY 301 EQERKNPMALYILKDKSPETEENPAPEPRSATPEGPGYSVPVGRSPGLPIRSARR 360


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Db 301 EQERKNPMALYILKDKSPETEENPAPEPRSATPPGPGYSVPAVPGSPGLPIRSARR 360
Qy 361 YPRSPARSPATGRTHSSPPRAPSPGGRSRASRTLRAGVHIIREQDEAGPVEISA 416
Db 361 YPRSPARSPATGRTHSSPPRAPSPGGRSRASRTLRAGVHIIREQDEAGPVEISA 416

RESULT 5
ID ABG75378 standard; protein; 418 AA.
XX AC ABG75378;
XX DT 22-APR-2004 (first entry)
XX DE Murine INSP052 complete protein.
XX KW INSP052; human; cell proliferation; autoimmune disease; inflammation;
KW cardiovascular disease; neurological disease; psychiatric disease;
KW developmental disease; metabolic disorder; infection;
KW immunoglobulin domain-containing cell surface recognition molecule.
XX OS Mus sp.
XX PN WO2003093316-A2.
XX PD 13-NOV-2003.
XX PF 30-APR-2003; 2003WO-GB001851.
XX PR 30-APR-2002; 2002GB-00009884.
XX PA (ARES-) ARES TRADING SA.
XX PI Davids AR, Fagan RJ, Phelps CB, Power C;
XX WPI; 2003-903655/82.
XX DR N-PSDB; ACH01276.
XX PT New INSP052 polypeptides and nucleic acids, useful in diagnosing and
PT treating cell proliferative, autoimmune/inflammatory, cardiovascular,
PT neurological, psychiatric, developmental, genetic or metabolic disorder.
XX PS Example 1; Page 68; Opp; English.
XX CC The present invention provides the protein and coding sequences of a
XX novel human immunoglobulin domain-containing cell surface recognition
XX molecule known as INSP052. The polypeptide is useful as immunoglobulin
XX domain-containing cell surface recognition molecule. The sequences may
XX also be used in therapy or diagnosing a disease or in the manufacture of
XX a medicament for treating a disease. The disease is a cell proliferative,
XX autoimmune/inflammatory, cardiovascular, neurological, psychiatric,
XX developmental, genetic or metabolic disorder, an infection or other
XX pathological condition. The polypeptides and nucleic acids are essential
XX to the structural integrity and homeostatic functioning of most tissues.
XX The present sequence is a polypeptide shown in the invention
XX
SQ Sequence 418 AA;
Query Match 93.9%; Score 1992; DB 7; Length 418;
Best Local Similarity 94.3%; Pred. No. 7, 4e-137;
Matches 394; Conservative 10; Mismatches 12; Indels 2; Gaps 1;
Qy 1 MKRERGALSRSARLRAPFYVLLIIQDPLEGVNITSPVRLIHGTGKSAALLSVQYSST 60
Db 1 MKRERGALSRSARLRISPFVYVLLIIQVPLEGVNITSPVRLIHGTGKSAALLSVQYSST 60
Qy 61 SSDRPPVVKWQKRDKPVTWVOSICTEVTIGTLPDYPDRIRLFENGSLLLDQLADSGTY 120
Db 61 SSDRPPVVKWQKRDKPVTWVOSIGTEVTIGTLPDYPDRIRLFENGSLLLDQLADSGTY 120
Qy 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180

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Db 121 EVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180
Qy 181 LKDGKPLLDNSRMLLSPDQKVLITITVLMEDDDLYSCWENPISQGRSLPVKITYVRRSS 240
Db 181 LKDGKPLLDNSRMLLSPDQKVLITITVLMEDDDLYSCWENPISQGRSLPVKITYVRRSS 240
Qy 241 LYIILSTGGIFLLAVTLVTCACWKPSK--RKOKLEKQNSLEYMDQNDRLKPEADTLPR 298
Db 241 LYIILSTGGIFLLAVTLVTCACWKPSKSKRKKRKKLEKQNSLEYMDQNDRLKPEADTLPR 300
Qy 299 SGEOERKNPMALYILKDKSPETEENPAPEPRSATPPGPGYSVPAVPGSPGLPIRSA 358
Db 301 SGEOERKNPMALYILKDKSDSEPDENPATEPRSTTEPPGPGYSVPPVPGSPGLPIRSA 360
Qy 359 RRYPRSPARSPATGRTHSSPPRAPSPGGRSRASRTLRAGVHIIREQDEAGPVEISA 416
Db 361 RRYPRSPARSPATGRTHSSPPRAPSPGGRSRASRTLRAGVHIIREQDEAGPVEISA 416

RESULT 6
ID ADO47895 standard; protein; 383 AA.
XX AC ADO47895;
XX DT 15-JUL-2004 (first entry)
XX DE Human mature protein SEQ ID NO:12.
XX KW human; virucide; anti-HIV; cytostatic; antiinflammatory; antiallergic;
KW immunosuppressive; antiarteriosclerotic; hypotensive; osteopathic;
KW antianaemic; neuroprotective; nootropic; antiparkinsonian; antiasthmatic;
KW haemostatic; antidiabetic; cardiant; HIV; viral infection; cancer;
KW inflammation; allergy; graft rejection; atherosclerosis; hypertension;
KW osteoporosis; anaemia; Alzheimer's disease; Parkinson's disease; asthma;
KW diabetes; myocardial infarction; haemophilia.
XX OS Homo sapiens.
XX PN WO2004007672-A2.
XX PD 22-JAN-2004.
XX PF 09-JUL-2003; 2003WO-US021703.
XX PR 12-JUL-2002; 2002US-0395402P.
XX PA (NUVE-) NUVELO INC.
XX PI Rupp F, Wang J, Zhou P, Wehrman T, Wang ZW, Tang YT;
XX WPI; 2004-122914/12.
XX DR N-PSDB; ADO47893.
XX PT New isolated polypeptides and polynucleotides useful in diagnostics,
XX forensics, in preventing or treating diseases such as HIV and cancer, and
XX as drug targets.
XX PS Claim 10; SEQ ID NO 12; 205pp; English.
XX CC The invention relates to novel isolated polynucleotides and polypeptides
XX encoded by them. Also included are mutants or variants of the
XX polynucleotides and polypeptides. A polypeptide of the invention has
XX virucide, anti-HIV, cytostatic, antiinflammatory, antiallergic,
XX immunosuppressive, antiarteriosclerotic, hypotensive, osteopathic,
XX antianaemic, neuroprotective, nootropic, antiparkinsonian, antiasthmatic,
XX haemostatic, antidiabetic, and cardiant activity. The composition and
XX methods are useful in diagnostics, forensics, gene or chromosome mapping,
XX identification of mutations responsible for genetic disorders or other
XX traits, in assessing biodiversity, or in producing many other types of
XX data and products dependent on DNA and amino acid sequences. They may
XX also be used in preventing or treating diseases (e.g. HIV and other viral

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CC infections, cancer, inflammation, allergies, graft rejection,
 CC atherosclerosis, hypertension, osteoporosis, anaemia, Alzheimer's
 CC disease, Parkinson's disease, asthma, diabetes, myocardial infarction or
 CC haemophilia). They may also be used as targets in drug screening. The
 CC present sequence represents a polypeptide of the invention.

XX SQ Sequence 383 AA;

Query Match 92.5%; Score 1962; DB 8; Length 383;
 Best Local Similarity 100.0%; Pred. No. 1e-134;
 Matches 383; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 34 VNITSPVRLHGTGKSAALLSVQSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 93
 Db 1 VNITSPVRLHGTGKSAALLSVQSSSTSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRP 60

Qy 94 DYDRIRLRFENGSLLSLQLADEGTVEYSITDDTFTGKTNLTVDVPIRPOVLVA 153
 Db 61 DYDRIRLRFENGSLLSLQLADEGTVEYSITDDTFTGKTNLTVDVPIRPOVLVA 120

Qy 154 STTVLESEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDKVLTITRVLMEDD 213
 Db 121 STTVLESEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLLSPDKVLTITRVLMEDD 180

Qy 214 LYSCMVENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLTVCAKWKPSKRKOKKL 273
 Db 181 LYSCMVENPISQGRSLPVKITVYRRSSLYIILSTGGIFLLVTLTVCAKWKPSKRKOKKL 240

Qy 274 EKQNSLEYMDQNDRLKPEADTLPRSGEQRKNPMALYILKDKOSPETEENPAPERSAT 333
 Db 241 EKQNSLEYMDQNDRLKPEADTLPRSGEQRKNPMALYILKDKOSPETEENPAPERSAT 300

Qy 334 EPGPGYSVSPAVGSRPLGPIRSARYPRSPARSPATGRTHSSPPRAPPSPGRSASR 393
 Db 301 EPGPGYSVSPAVGSRPLGPIRSARYPRSPARSPATGRTHSSPPRAPPSPGRSASR 360

Qy 394 TLRTAGVHIIREQDEAGPVEISA 416
 Db 361 TLRTAGVHIIREQDEAGPVEISA 383

RESULT 7

ID ADQ65357 standard; protein; 367 AA.

XX AC ADQ65357;

XX DT 07-OCT-2004 (first entry)

XX DE Novel human protein sequence #330.

XX KW osteopathic; neuroprotective; nootropic; antiparkinsonian; cytostatic;
 KW gene therapy; diagnostic marker; morbid state; osteoporosis;
 KW neurological disease; Alzheimer's disease; Parkinson's disease; dementia;
 KW cancer.

XX OS Homo sapiens.

XX FN EPI440981-A2.

XX PD 28-JUL-2004.

XX PF 21-JAN-2004; 2004EP-00001196.

XX PR 21-JAN-2003; 2003JP-00102206.

XX PR 09-MAY-2003; 2003JP-00131392.

XX PA (REAS-) RES ASSOC BIOTECHNOLOGY.

XX PI Isogai T, Sugiyama T, Otsuki T, Wakanatsu A, Sato H, Ishii S;

XX PI Yamamoto J, Isono Y, Nagai K, Irie R;

XX DR WPI; 2004-535376/52.

DR N-PSDB; ADQ63169.

XX Novel 2495 cDNA, useful for treating osteoporosis, neurological diseases,
 PT Alzheimer's diseases, Parkinson's diseases, dementia and various cancers.
 XX Claim 1; SEQ ID NO 2518; 2449pp; English.

CC The invention relates to 2495 novel polynucleotides (I) and their encoded
 CC polypeptides, sequences hybridizing to these nucleotides, sequences
 CC encoding partial polypeptides and sequences having 70% or 90% identity to
 CC the nucleotide and protein sequences. The nucleotides and polypeptides
 CC are useful as diagnostic markers or therapeutic target for the diseases
 CC or morbid states. They are also useful for treating osteoporosis,
 CC neurological diseases, Alzheimer's diseases, Parkinson's diseases,
 CC dementia and various cancers. This sequence corresponds to a protein
 CC sequence of the invention.

XX SQ Sequence 367 AA;

Query Match 69.7%; Score 1478.5; DB 8; Length 367;
 Best Local Similarity 84.7%; Pred. No. 1.9e-99;
 Matches 305; Conservative 12; Mismatches 26; Indels 17; Gaps 4;

Qy 1 MKERGAISRASRALRAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSAALLSVQYSST 60

Db 1 MKERGAISRASRALRAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSAALLSVQYSST 60

Qy 61 SSORPVVKWQLKRDKPVTVVQSIGTEVIGTLRDPYDRIRLRFENGSLLSLQLADEGTY 120

Db 61 SSORPVVKWQLKRDKPVTVVQSIGTEVIGTLRDPYDRIRLRFENGSLLSLQLADEGTY 120

Qy 121 EVESITDDTFTGKTNLTVDVPIRPOVLVAITRVLMESEAFNLCSHENGTKPSYTW 180

Db 121 EVESITDDTFTGKTNLTVDVPIRPOVLVAITRVLMESEAFNLCSHENGTKPSYTW 180

Qy 181 LKDGKPLNDSRMLLSPDKVLTITRVLMESEAFNLCSHENGTKPSYTW 240

Db 181 LKDGKPLNDSRMLLSPDKVLTITRVLMESEAFNLCSHENGTKPSYTW 240

Qy 241 LYIILSTGGIFLLVTLTVCAKWKPSKRKOKKLEKQNSLEYMDQNDRLKPEADTLPRSG 300

Db 241 LYIILSTGGIFLLVTLTVCAKWKPSKRKOKKLEKQNSLEYMDQNDRLKPEGS-LPAT- 298

Qy 301 EQERKNPMALYI-----LKDKOSPETEENPAPERS-ATEPGPGYSVSPAVPGR 349

Db 299 -----QSPIPTIRSVGCWEKAEIOLDKENSAGTLPDLGASKGKEPEPASLASHSLPRR 354

RESULT 8

ID AAE14784

XX AC AAE14784 standard; protein; 298 AA.

XX DT 30-OCT-2002 (first entry)

XX DE Human immunoglobulin superfamily protein (IGSF-4).

XX KW Human; immunoglobulin superfamily protein-4; IGSFP-4; asthma;
 KW immune system disorder; acquired immune deficiency syndrome; AIDS;
 KW atherosclerosis; neurological disorder; Alzheimer's disease;
 KW Parkinson's disease; developmental disorder; renal tubular acidosis;
 KW anaemia; muscle disorder; cardiomyopathy; myocarditis; cancer;
 KW cell proliferative disorder; arteriosclerosis; hepatitis.

XX OS Homo sapiens.

XX PH Key Location/Qualifiers

XX FT Peptide 1..33

XX FT Protein 34..298

XX FT Region 43..231

XX FT /label= Signal_peptide

XX FT /note= "Mature IGSFP-4"

/note= "Antigen precursor signal immunoglobulin fold
glycoprotein T cell surface transmembrane"
48..120
/label= Immunoglobulin_domain
161..219
/label= Immunoglobulin_domain
243..263
/label= Transmembrane_domain

XX WO200240671-A2.
XX
XX 23-MAY-2002.
XX
XX 15-NOV-2001; 2001WO-US044974.
XX
XX 16-NOV-2000; 2000US-0249645P.
XX
XX (INCYTE GENOMICS INC.
XX
XX Baughn MR, Lu DAM, Yue H, Elliott VS, Thangavelu K, Ramkumar J;
XX Lu Y, Lo TP, Gururajan R, Gandhi AR, Arvizu C, Yao MG;
XX WPI; 2002-519384/55.
XX N-PSDB; AAD36780.
XX
XX Novel human immunoglobulin superfamily polypeptide, useful in diagnosis,
XX prevention or treatment of immune system, neurological, developmental,
XX muscle and cell proliferative disorders.
XX
XX Claim 1; Page 109-110; 122pp; English.
XX
XX The present sequence is human immunoglobulin superfamily protein (IGSFP) -
XX 4. The IGSFP polypeptide and polynucleotide are useful for diagnosing,
XX treating or preventing disorders associated with aberrant expression of
XX IGSFP e.g. immune system disorders (e.g. acquired immune deficiency
XX syndrome (AIDS), asthma, atherosclerosis, psoriasis, uveitis),
XX neurological disorders (e.g. Alzheimer's disease, Huntington's disease,
XX dementia, Parkinson's disease), developmental disorders (e.g. renal
XX tubular acidosis, epilepsy, anaemia), muscle disorders (e.g.
XX cardiomyopathy, myocarditis), or cell proliferative disorders (e.g.
XX arteriosclerosis, cirrhosis, hepatitis, and cancer). The polypeptide and
XX polynucleotide are also useful for assessing the effects of exogenous
XX compounds on their expression. The polypeptide is useful in drug
XX screening techniques, to analyse the proteome of a tissue or cell type,
XX as elements on a microarray. The polynucleotide is useful for creating
XX knock-in humanised animals or transgenic animals to model human diseases,
XX in somatic or germline gene therapy, to generate a transcript image of a
XX tissue or cell type, for detecting differences in the chromosomal
XX location due to translocation, inversion among normal, carrier or
XX affected individuals, and as hybridisation probes for mapping naturally
XX occurring genomic sequences

XX Sequence 298 AA;
XX
XX Query Match 69.4%; Score 1472; DB 5; Length 298;
XX Best Local Similarity 100.0%; Pred. No. 4.2e-99;
XX Matches 291; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKRGALSRSARLRAPFVYLLLIQTDPLEGVNITSPVRLINGTVGKSALLSVQYSST 60
Db 1 MKRGALSRSARLRAPFVYLLLIQTDPLEGVNITSPVRLINGTVGKSALLSVQYSST 60

Qy 61 SSDRPVVKWQKRPVTVVOSIGTEVIGTIRPDYDRIRLFENGSLLSLQLADSGTY 120
Db 61 SSDRPVVKWQKRPVTVVOSIGTEVIGTIRPDYDRIRLFENGSLLSLQLADSGTY 120

Qy 121 EVEISITDDTFTGKTLNLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180
Db 121 EVEISITDDTFTGKTLNLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180

Qy 181 LKDGKPLNDSRMLLSPQKQVLTTRVLMEDDDLVSCMVENPISQGRSLPVKITVYRRSS 240
Db 181 LKDGKPLNDSRMLLSPQKQVLTTRVLMEDDDLVSCMVENPISQGRSLPVKITVYRRSS 240

Qy 241 LYIILSTGGIFLLVTLVTVACWKPKRKQKKLEKONSLEYMDQNDRLKP 291
Db 241 LYIILSTGGIFLLVTLVTVACWKPKRKQKKLEKONSLEYMDQNDRLKP 291

RESULT 9
ADO47887
ID ADO47887 standard; protein; 270 AA.
XX
XX ADO47887;
XX
XX 15-JUL-2004 (first entry)
XX
XX Human protein SEQ ID NO:4.
XX
XX human; virucide; anti-HIV; cytostatic; antiinflammatory; antiallergic;
XX immunosuppressive; antiarteriosclerotic; hypotensive; osteopathic;
XX antianemic; neuroprotective; nootropic; antiparkinsonian; antiasthmatic;
XX haemostatic; antidiabetic; cardiant; HIV; viral infection; cancer;
XX inflammation; allergy; graft rejection; atherosclerosis; hypertension;
XX osteoporosis; anaemia; Alzheimer's disease; Parkinson's disease; asthma;
XX diabetes; myocardial infarction; haemophilia.
XX
XX Homo sapiens.
XX
XX WO2004007672-A2.
XX
XX 22-JAN-2004.
XX
XX 09-JUL-2003; 2003WO-US021703.
XX
XX 12-JUL-2002; 2002US-0395402P.
XX
XX (NUVE-) NUVELO INC.
XX
XX Rupp F, Wang J, Zhou P, Wehrman T, Wang ZW, Tang YT;
XX WPI; 2004-122914/12.
XX N-PSDB; ADO47886.
XX
XX New isolated polypeptides and polynucleotides useful in diagnostics,
XX forensics, in preventing or treating diseases such as HIV and cancer, and
XX as drug targets.
XX
XX Claim 10; SEQ ID NO 4; 205pp; English.
XX
XX The invention relates to novel isolated polynucleotides and polypeptides
XX encoded by them. Also included are mutants or variants of the
XX polynucleotides and polypeptides. A polypeptide of the invention has
XX virucide, anti-HIV, cytostatic, antiinflammatory, antiallergic,
XX immunosuppressive, antiarteriosclerotic, hypotensive, osteopathic,
XX antianemic, neuroprotective, nootropic, antiparkinsonian, antiasthmatic,
XX haemostatic, antidiabetic, and cardiant activity. The composition and
XX methods are useful in diagnostics, forensics, gene or chromosome mapping,
XX identification of mutations responsible for genetic disorders or other
XX traits, in assessing biodiversity, or in producing many other types of
XX data and products dependent on DNA and amino acid sequences. They may
XX also be used in preventing or treating diseases (e.g. HIV and other viral
XX infections, cancer, inflammation, allergies, graft rejection,
XX atherosclerosis, hypertension, osteoporosis, anaemia, Alzheimer's
XX disease, Parkinson's disease, asthma, diabetes, myocardial infarction or
XX haemophilia). They may also be used as targets in drug screening. The
XX present sequence represents a polypeptide of the invention.

XX Sequence 270 AA;
XX
XX Query Match 63.7%; Score 1352; DB 8; Length 270;
XX Best Local Similarity 100.0%; Pred. No. 2.1e-90;
XX Matches 268; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKRGALSRSARLRAPFVYLLLIQTDPLEGVNITSPVRLINGTVGKSALLSVQYSST 60
Db 1 MKRGALSRSARLRAPFVYLLLIQTDPLEGVNITSPVRLINGTVGKSALLSVQYSST 60

```
Db 1 MKRERGALSASRALRLAPFVYLLLIOTDPLEGVNITSPVRLIHGTVGKSALLSVOYSST 60
Qy 61 SSDRPVVKWQKRDKPVTWVQSIGTEVIGTLRPDYRDRIRLFENGSHLLSDLOLADEGTY 120
Db 61 SSDRPVVKWQKRDKPVTWVQSIGTEVIGTLRPDYRDRIRLFENGSHLLSDLOLADEGTY 120
Qy 121 EVEISITDDTFTGKXTINLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180
Db 121 EVEISITDDTFTGKXTINLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180
Qy 181 LKDGKPLNDSRMLLSPDQKVLITTRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240
Db 181 LKDGKPLNDSRMLLSPDQKVLITTRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240
Qy 241 LYIILSTGGIFLLVTLVTVCAWKPSKR 268
Db 241 LYIILSTGGIFLLVTLVTVCAWKPSKR 268

RESULT 10
ADSI11055
ID ADSI11055 standard; protein; 270 AA.
XX AC ADSI11055;
XX DT 16-DEC-2004 (first entry)
XX DE Human therapeutic protein - SEQ ID 1292.
XX KW antiinflammatory; neuroprotective; antianaemic; cytostatic; vulnerary;
XX KW inflammatory; haematopoiesis; immunity; neurodegenerative; stem cell;
XX KW aplastic anaemia; cancer; wound healing; gene therapy.
XX OS Homo sapiens.
XX FN WO2004080148-A2.
XX PD 23-SEP-2004.
XX PF 30-SEP-2003; 2003WO-US030720.
XX PR 02-OCT-2002; 2002US-0416186P.
XX PA (NUVE-) NUVELO INC.
XX PI Tang YT, Asundi V, Ren P, Zhang J, Zhang J, Wehrman T, Wang Z, Ma Y;
XX PI Wang D, Chen R, Zhao QA, Wang J, Ghosh M, Xue AJ, Weng G, Zhou P;
XX DR WPI; 2004-668857/65.
XX DR N-PSDB; ADS10371.
XX PT New polynucleotide, useful in preparing a composition for diagnosing or
XX PT treating inflammatory, neurodegenerative or stem cell disorders, e.g.,
XX PS aplastic anemia or cancer for promoting wound healing.
XX PF Claim 20; SEQ ID NO 1292; 718pp; English.
XX CC The invention relates to a novel isolated polynucleotide and the encoded
XX CC polypeptide. The molecules of the invention demonstrate antiinflammatory,
XX CC neuroprotective, antianaemic, cytostatic and vulnerary activities and may
XX CC be useful in preparing a composition for diagnosing or treating
XX CC inflammatory, haematopoietic, immune, neurodegenerative or stem cell
XX CC disorders, such as aplastic anaemia or cancer, as well as for promoting
XX CC wound healing. The molecules may also be utilised during gene therapy
XX CC procedures. The current sequence is that of a human therapeutic protein
XX CC of the invention. The current sequence is not shown explicitly within the
XX CC specification but can be accessed from the WIPO web-site.
XX SQ Sequence 270 AA;

Query Match 63.7%; Score 1352; DB 8; Length 270;
Best Local Similarity 100.0%; Pred. No. 2.1e-90;
Matches 268; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 MKRERGALSASRALRLAPFVYLLLIOTDPLEGVNITSPVRLIHGTVGKSALLSVOYSST 60
Db 1 MKRERGALSASRALRLAPFVYLLLIOTDPLEGVNITSPVRLIHGTVGKSALLSVOYSST 60
Qy 61 SSDRPVVKWQKRDKPVTWVQSIGTEVIGTLRPDYRDRIRLFENGSHLLSDLOLADEGTY 120
Db 61 SSDRPVVKWQKRDKPVTWVQSIGTEVIGTLRPDYRDRIRLFENGSHLLSDLOLADEGTY 120
Qy 121 EVEISITDDTFTGKXTINLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180
Db 121 EVEISITDDTFTGKXTINLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180
Qy 181 LKDGKPLNDSRMLLSPDQKVLITTRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240
Db 181 LKDGKPLNDSRMLLSPDQKVLITTRVLMEDDDLYSCWENPISQGRSLPVKITVYRRSS 240
Qy 241 LYIILSTGGIFLLVTLVTVCAWKPSKR 268
Db 241 LYIILSTGGIFLLVTLVTVCAWKPSKR 268

RESULT 11
ABG75380
ID ABG75380 standard; protein; 246 AA.
XX AC ABG75380;
XX DT 22-APR-2004 (first entry)
XX DE INSP052 extracellular domain protein.
XX KW INSP052; human; cell proliferation; autoimmune disease; inflammation;
XX KW cardiovascular disease; neurological disease; psychiatric disease;
XX KW developmental disease; metabolic disorder; infection;
XX KW immunoglobulin domain-containing cell surface recognition molecule.
XX OS Unidentified.
XX FN WO2003093316-A2.
XX PD 13-NOV-2003.
XX PF 30-APR-2003; 2003WO-GB001851.
XX PR 30-APR-2002; 2002GB-00009884.
XX PA (ARES-) ARES TRADING SA.
XX PI Davids AR, Fagan RJ, Phelps CB, Power C;
XX DR WPI; 2003-903655/82.
XX DR N-PSDB; ACH01279.
XX PT New INSP052 polypeptides and nucleic acids, useful in diagnosing and
XX PT treating cell proliferative, autoimmune/inflammatory, cardiovascular,
XX PT neurological, psychiatric, developmental, genetic or metabolic disorder.
XX PS Claim 1; Fig 7; Opp; English.
XX CC The present invention provides the protein and coding sequences of a
XX CC novel human immunoglobulin domain-containing cell surface recognition
XX CC molecule known as INSP052. The polypeptide is useful as immunoglobulin
XX CC domain-containing cell surface recognition molecule. The sequences may
XX CC also be used in therapy or diagnosing a disease or in the manufacture of
XX CC a medicament for treating a disease. The disease is a cell proliferative,
XX CC autoimmune/inflammatory, cardiovascular, neurological, psychiatric,
XX CC developmental, genetic or metabolic disorder, an infection or other
XX CC pathological condition. The polypeptides and nucleic acids are essential
XX CC to the structural integrity and homeostatic functioning of most tissues.
XX CC The present sequence is a polypeptide shown in the invention
XX SQ Sequence 246 AA;
```

Query Match 56.8%; Score 1205; DB 7; Length 246;
Best Local Similarity 100.0%; Pred. No. 1e-79;
Matches 240; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKRERGALSRRALRPLAFVYLLLIQTDPLEGVNTSPVRLIHGTGKSAALLSVQYSST 60
DB 1 MKRERGALSRRALRPLAFVYLLLIQTDPLEGVNTSPVRLIHGTGKSAALLSVQYSST 60

QY 61 SSDRPVVKWQKRDKPTVTVQSIGTEVIGTIRLPYDRIRLRFENGSLLLSDQLADSGTY 120
DB 61 SSDRPVVKWQKRDKPTVTVQSIGTEVIGTIRLPYDRIRLRFENGSLLLSDQLADSGTY 120

QY 121 EVELSIITDDFTTGKTNLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180
DB 121 EVELSIITDDFTTGKTNLTVDVPISRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180

QY 181 LKDGKPLNDSRMLSPDQKVLITTRVLMEDDDLIYSCWVENPISQGRSLPVKITVYRRSS 240
DB 181 LKDGKPLNDSRMLSPDQKVLITTRVLMEDDDLIYSCWVENPISQGRSLPVKITVYRRSS 240

RESULT 12
ADO47890
ID ADO47890 standard; protein; 237 AA.
XX ADO47890;
XX
XX 15-JUL-2004 (first entry)
XX
XX Human mature protein SEQ ID NO:7.
XX
XX human; virucide; anti-HIV; cytostatic; antiinflammatory; antiallergic;
KW immunosuppressive; antiarteriosclerotic; hypotensive; osteopathic;
KW antianemic; neuroprotective; nootropic; antiparkinsonian; antiasthmatic;
KW haemostatic; antidiabetic; cardiant; HIV; viral infection; cancer;
KW inflammation; allergy; graft rejection; atherosclerosis; hypertension;
KW osteoporosis; anaemia; Alzheimer's disease; Parkinson's disease; asthma;
KW diabetes; myocardial infarction; haemophilia.
XX
XX Homo sapiens.
XX
XX WO2004007672-A2.
XX
XX 22-JAN-2004.
XX
XX 09-JUL-2003; 2003WO-US021703.
XX
XX 12-JUL-2002; 2002US-0395402P.
XX
XX (NUVE-) NUVELO INC.
XX
XX Rupp F, Wang J, Zhou P, Wehrman T, Wang ZW, Tang YT;
PI
XX WPI; 2004-122914/12.
XX
XX N-PSDB; ADO47888.
XX
XX New isolated polypeptides and polynucleotides useful in diagnostics,
PT forensics, in preventing or treating diseases such as HIV and cancer, and
PT as drug targets.
XX
XX Claim 10; SEQ ID NO 7; 205pp; English.
XX
XX The invention relates to novel isolated polynucleotides and polypeptides
CC encoded by them. Also included are mutants or variants of the
CC polynucleotides and polypeptides. A polypeptide of the invention has
CC virucide, anti-HIV, cytostatic, antiinflammatory, antiallergic,
CC immunosuppressive, antiarteriosclerotic, hypotensive, osteopathic,
CC antianemic, neuroprotective, nootropic, antiparkinsonian, antiasthmatic,
CC haemostatic, antidiabetic, and cardiant activity. The composition and
CC methods are useful in diagnostics, forensics, gene or chromosome mapping,
CC identification of mutations responsible for genetic disorders or other
CC traits, in assessing biodiversity, or in producing many other types of

CC data and products dependent on DNA and amino acid sequences. They may
CC also be used in preventing or treating diseases (e.g. HIV and other viral
CC infections, cancer, inflammation, allergies, graft rejection,
CC atherosclerosis, hypertension, osteoporosis, anaemia, Alzheimer's
CC disease, Parkinson's disease, asthma, diabetes, myocardial infarction or
CC haemophilia). They may also be used as targets in drug screening. The
CC present sequence represents a polypeptide of the invention.
XX
SQ Sequence 237 AA;

Query Match 56.2%; Score 1192; DB 8; Length 237;
Best Local Similarity 100.0%; Pred. No. 8.5e-79;
Matches 235; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 34 VNITSVRLIHGTGKSAALLSVQYSSTSDRPVVKWQKRDKPTVTVQSIGTEVIGTLRP 93
DB 1 VNITSVRLIHGTGKSAALLSVQYSSTSDRPVVKWQKRDKPTVTVQSIGTEVIGTLRP 60

QY 94 DYDRIRLRFENGSLLLSDQLADSGTYEVEISITDDFTTGKTNLTVDVPISRPQVLVA 153
DB 61 DYDRIRLRFENGSLLLSDQLADSGTYEVEISITDDFTTGKTNLTVDVPISRPQVLVA 120

QY 154 STTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLSPDQKVLITTRVLMEDDD 213
DB 121 STTVLELSEAFNLCSHENGTKPSYTWLKDGPPLNDSRMLSPDQKVLITTRVLMEDDD 180

QY 214 LYSWVENPISQGRSLPVKITVYRRSSLYITLSTGGIFLLVTLVTVCAWKPSKR 268
DB 181 LYSWVENPISQGRSLPVKITVYRRSSLYITLSTGGIFLLVTLVTVCAWKPSKR 235

RESULT 13
ADM87341
ID ADM87341 standard; protein; 256 AA.
XX ADM87341;
XX
XX 03-JUN-2004 (first entry)
XX
XX Human protein SEQ ID NO:434.
XX
XX respiratory; cytostatic; antiarthritic; antiinflammatory;
KW gastrointestinal; antibacterial; immunosuppressive; antidiabetic;
KW antirheumatic; gene therapy; molecular weight marker; chromosome marker;
KW chromosome tag; genetic fingerprinting; nutritional supplement; cancer;
KW inflammatory condition; arthritis; inflammatory bowel disease;
KW Crohn's disease; sepsis; rheumatoid arthritis; diabetes mellitus type 1;
KW graft versus host disease; human.
XX
XX Homo sapiens.
XX
XX WO2004009834-A2.
XX
XX 29-JAN-2004.
XX
XX 19-JUL-2002; 2002WO-US022858.
XX
XX 21-JUL-2001; 2001US-0306971P.
XX
XX 28-MAR-2002; 2002US-00112944.
XX
XX (NUVE-) NUVELO INC.
XX
XX Tang YT, Yang Y, Weng G, Zhang J, Ren F, Xue A, Wang J;
PI Wehrman T, Ghosh MJ, Wang D, Zhao QA, Wang Z;
PI
XX WPI; 2004-143291/14.
XX
XX N-PSDB; ADM87097.
XX
XX New isolated polynucleotides and polypeptides, useful for treating, e.g.
PT cancer, lung or liver fibrosis, arthritis, inflammatory bowel disease,
PT Crohn's disease, rheumatoid arthritis, diabetes mellitus type 1 or graft
PT versus host disease.
XX

Claim 20; SEQ ID NO 434; 591pp; English.

The present invention describes an isolated polynucleotide (I): (a) comprising a nucleotide sequence selected from SEQ ID NO:1-244; or (b) which encodes a polypeptide with biological activity, where the polynucleotide hybridizes to (i) under stringent hybridization conditions or has greater than 99% sequence identity with (I). (I) has respiratory, cytosolic, antithrombotic, anti-inflammatory, gastrointestinal, antibacterial, immunosuppressive, antidiabetic and antirheumatic activities, and can be used in gene therapy. (I) can be used for generating polynucleotides encoding chimeric or fusion proteins and heterologous protein sequences. The polynucleotides can be used to express recombinant protein for analysis, characterization or therapeutic use; as markers for tissues in which the corresponding protein is preferentially expressed; as molecular weight markers on gels; as chromosome markers or tags to identify chromosomes or to map related gene positions; to compare with endogenous DNA sequences in patients to identify potential genetic disorders; as probes to hybridize and discover genes, related DNA sequences; as a source of information to derive PCR primers for genetic fingerprinting; as a probe to subtract-out known sequences in the process of discovering other novel polynucleotides; for selecting and making oligomers for attachment to a gene chip or other support, including for examination of expression patterns; to raise anti-protein antibodies using DNA immunisation techniques; and as an antigen to raise anti-DNA antibodies or elicit another immune response. The polynucleotides and polypeptides can also be used as nutritional sources or supplements, e.g. as a protein or amino acid supplement, as a carbon source, as a nitrogen source or as a source of carbohydrates. The polynucleotides and polypeptides can also be used to treat cancer. The compositions are useful for promoting better or faster closure of non-healing wounds, for the generation and regeneration of tissues, for gut protection or regeneration and treatment of lung or liver fibrosis, reperfusion injury in various tissues, and conditions resulting from systemic cytokine damage. The compositions can also be used to treat inflammatory conditions (e.g. arthritis, inflammatory bowel disease or Crohn's disease), sepsis, rheumatoid arthritis, diabetes mellitus type 1 or graft versus host disease. The present sequence represents a novel human polypeptide sequence from the present invention. N.B. The sequences for this patent were obtained from the USPTO web site from an equivalent US patent US2004004824A1.

SEQ Sequence 256 AA;

Query Match 56.0%; Score 1189; DB 8; Length 256;
Best Local Similarity 96.7%; Pred. No. 1.6e-78;
Matches 236; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

```
Qy 1 MKRERGALSRSARALRALAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSALLSVQYSST 60
Db 1 MKRERGALSRSARALRALAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSALLSVQYSST 60

Qy 61 SSDRPVVKWQKRDKPVTWVQSIGTEVIGTLRDPYDRIRLRFENGSLLSDLQADEGTY 120
Db 61 SSDRPVVKWQKRDKPVTWVQSIGTEVIGTLRDPYDRIRLRFENGSLLSDLQADEGTY 120

Qy 121 EVEISITDDTFTGKTLINLTVDVPISRPQVLVASTTVEISEATFLNCSEHNGTKPSYTW 180
Db 121 EVEISITDDTFTGKTLINLTVDVPISRPQVLVASTTVEISEATFLNCSEHNGTKPSYTW 180

Qy 181 LKDGKPLNDSRMLLSPDKQVLTITRVLMEDDDLSCVWENPISQGRSLPKVITVYRRSS 240
Db 181 LKDGKPLNDSRMLLSPDKQVLTITRVLMEDDDLSCVWENPISQGRSLPKVITVYRRSS 240

Qy 241 LYII 244
Db 241 FYII 244
```

RESULT 14

AAM24238

ID AAM24238 standard; protein; 256 AA.

XX

AC AAM24238;

XX 12-OCT-2001 (first entry)

XX Human EST encoded protein SEQ ID NO: 1763.

XX Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;
XX tomato; monkey; dog; sea urchin; expressed sequence tag; EST;
XX diagnostics; forensic test; gene mapping; genetic disorder; biodiversity;
XX gene therapy; nutrition.

XX Homo sapiens.

XX WO200154477-A2.

XX 02-AUG-2001.

XX 25-JAN-2001; 2001WO-US002687.

XX 25-JAN-2000; 2000US-00491404.

XX 17-JUL-2000; 2000US-00617746.

XX 03-AUG-2000; 2000US-00631451.

XX 15-SEP-2000; 2000US-00663870.

XX (HYSE-) HYSEQ INC.

XX Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;

XX Cao Y, Drmanac RA, Zhang J, Werhman T;

XX WPI; 2001-476164/51.

XX N-PSDB; AAH98897.

XX Isolated polypeptide for treatment of diseases, diagnostics, raising

XX antibodies and research use.

XX Claim 20; Page 1159-1160; 1275pp; English.

XX The present invention provides the protein and coding sequences of novel
XX proteins from a variety of organisms, including human, dog, cat, horse,
XX cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea
XX urchin and tomato. These were derived from expressed sequence tags (ESTs)
XX from the organism of interest. They can be used in diagnostics,
XX forensics, gene mapping, identification of mutations, to assess
XX biodiversity and for nutritional purposes. The present sequence is a
XX protein of the invention

XX Sequence 256 AA;

Query Match 55.5%; Score 1178; DB 4; Length 256;
Best Local Similarity 97.1%; Pred. No. 9.9e-78;
Matches 234; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

```
Qy 1 MKRERGALSRSARALRALAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSALLSVQYSST 60
Db 1 MKRERGALSRSARALRALAPFVYLLLIQTDPLEGVNITSPVRLIHGTGKSALLSVQYSST 60

Qy 61 SSDRPVVKWQKRDKPVTWVQSIGTEVIGTLRDPYDRIRLRFENGSLLSDLQADEGTY 120
Db 61 SSDRPVVKWQKRDKPVTWVQSIGTEVIGTLRDPYDRIRLRFENGSLLSDLQADEGTY 120

Qy 121 EVEISITDDTFTGKTLINLTVDVPISRPQVLVASTTVEISEATFLNCSEHNGTKPSYTW 180
Db 121 EVEISITDDTFTGKTLINLTVDVPISRPQVLVASTTVEISEATFLNCSEHNGTKPSYTW 180

Qy 181 LKDGKPLNDSRMLLSPDKQVLTITRVLMEDDDLSCVWENPISQGRSLPKVITVYRRSS 240
Db 181 LKDGKPLNDSRMLLSPDKQVLTITRVLMEDDDLSCVWENPISQGRSLPKVITVYRRSS 240

Qy 241 L 241
Db 241 L 241
```

RESULT 15

ADMB7787
ID ADM87787 standard; protein; 256 AA.
AC ADM87787;
XX
DT 03-JUN-2004 (first entry)
XX
DE Human EST derived amino acid sequence SEQ ID NO:880.
XX
XX respiratory; cytostatic; antiarthritic; antiinflammatory;
KW gastrointestinal; antibacterial; immunosuppressive; antidiabetic;
KW antirheumatic; gene therapy; molecular weight marker; chromosome marker;
KW chromosome tag; genetic fingerprinting; nutritional supplement; cancer;
KW inflammatory condition; arthritis; inflammatory bowel disease;
KW Crohn's disease; sepsis; rheumatoid arthritis; diabetes mellitus type 1;
KW graft versus host disease; human; expressed sequence tag; EST.
XX
OS Homo sapiens.
XX
XX WO2004009834-A2.
PN
XX
PD 29-JAN-2004.
XX
XX 19-JUL-2002; 2002WO-US022858.
XX
XX 21-JUL-2001; 2001US-0306971P.
PR
XX 28-MAR-2002; 2002US-00112944.
XX
XX (NUVE-) NUVELO INC.
PA
XX
XX Tang YT, Yang Y, Weng G, Zhang J, Ren F, Xue A, Wang J;
PI Wehrman T, Ghosh MJ, Wang D, Zhao QA, Wang Z;
XX
XX WPI; 2004-143291/14.
DR
XX N-PSDB; ADM87569.
XX
XX New isolated polynucleotides and polypeptides, useful for treating, e.g.
PT cancer, lung or liver fibrosis, arthritis, inflammatory bowel disease,
PT Crohn's disease, rheumatoid arthritis, diabetes mellitus type 1 or graft
PT versus host disease.
XX
XX Example 2; SEQ ID NO 880; 591pp; English.
XX
XX The present invention describes an isolated polynucleotide (I): (a)
XX comprising a nucleotide sequence selected from SEQ ID NO:1-244; or (b)
XX which encodes a polypeptide with biological activity, where the
XX polynucleotide hybridises to (I) under stringent hybridisation conditions
XX or has greater than 99% sequence identity with (I). (I) has respiratory,
XX cytostatic, antiarthritic, antiinflammatory, gastrointestinal,
XX antibacterial, immunosuppressive, antidiabetic and antirheumatic
XX activities, and can be used in gene therapy. (I) can be used for
XX generating polynucleotides encoding chimeric or fusion proteins and
XX heterologous protein sequences. The polynucleotides can be used to
XX express recombinant protein for analysis, characterisation or therapeutic
XX use; as markers for tissues in which the corresponding protein is
XX preferentially expressed; as molecular weight markers on gels; as
XX chromosome markers or tags to identify chromosomes or to map related gene
XX positions; to compare with endogenous DNA sequences in patients to
XX identify potential genetic disorders; as probes to hybridise and discover
XX genes, related DNA sequences; as a source of information to derive PCR
XX primers for genetic fingerprinting; as a probe to subtract-out known
XX sequences in the process of discovering other novel polynucleotides; for
XX selecting and making oligomers for attachment to a gene chip or other
XX support, including for examination of expression patterns; to raise anti-
XX protein antibodies using DNA immunisation techniques; and as an antigen
XX to raise anti-DNA antibodies or elicit another immune response. The
XX polynucleotides and polypeptides can also be used as nutritional sources
XX or supplements, e.g. as a protein or amino acid supplement, as a carbon
XX source, as a nitrogen source or as a source of carbohydrates. The
XX polynucleotides and polypeptides can also be used treat cancer. The
XX compositions are useful for promoting better or faster closure of non-
XX healing wounds, for the generation and regeneration of tissues, for gut
XX protection or regeneration and treatment of lung or liver fibrosis,

CC reperfusion injury in various tissues, and conditions resulting from
CC systemic cytokine damage. The compositions can also be used to treat
CC inflammatory conditions (e.g. arthritis, inflammatory bowel disease or
CC Crohn's disease), sepsis, rheumatoid arthritis, diabetes mellitus type 1
CC or graft versus host disease. The present sequence represents an
CC expressed sequence tag (EST) derived amino acid sequence from the present
CC invention. N.B. The sequences for this patent were obtained from the
CC USPTO web site from an equivalent US patent US20040048249A1.
XX
XX Sequence 256 AA;
SQ
Query Match 55.5%; Score 1178; DB 8; Length 256;
Best Local Similarity 97.1%; Pred. No. 9.9e-78;
Matches 234; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
QY 1 MKERGALSASRALRLAPFVILLITQDPLEGVNITSPVRLIHGTGKSALLSVQYSST 60
DB 1 MKERGALSASRALRLAPFVILLITQDPLEGVNITSPVRLIHGTGKSALLSVQYSST 60
QY 61 SSDRPVVKWOLKRDKPVTVVQSIGTEVIGTLRPDYDRIRLRFENGSLLLSDQLADEGTY 120
DB 61 SSDRPVVKWOLKRDKPVTVVQSIGTEVIGTLRPDYDRIRLRFENGSLLLSDQLADEGTY 120
QY 121 EVEISITDDTFTGCKTINLTVDPVPISRPQVLGASTTVLELSEAFITLNCSENGTKPSYTW 180
DB 121 EVEISITDDTFTGCKTINLTVDPVPISRPQVLGASTTVLELSEAFITLNCSENGTKPSYTW 180
QY 181 LKDGKPLNDSRMLLSPDQKVLITITVLMEDDDLYSCWENPISQGRSLPVKITVVRSS 240
DB 181 LKDGKPLNDSRMLLSPDQKVLITITVLMEDDDLYSCWENPISQGRSLPVKITVVRSS 240
QY 241 L 241
DB 241 L 241
Search completed: July 26, 2005, 16:07:32
Job time : 120.106 secs

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OM protein - protein search, using sw model

Run on: July 26, 2005, 15:58:02 / Search time 24.0385 seconds
(without alignments)
1665.085 Million cell updates/sec

Title: US-10-706-691-16

Perfect score: 2122

Sequence: 1 MKRRGALSRASRALRLAPF.....TAGVHIIRQDEAGPVBEISA 416

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

PIR_79:.*
1: pir1.*
2: pir2.*
3: pir3.*
4: pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	220	10.4	351	1 RWHUC2	T-cell surface gly
2	216	10.2	341	2 JC1512	biliary glycoprote
3	207.5	9.8	278	2 JC1506	biliary glycoprote
4	202.5	9.5	278	2 A39037	carcinoembryonic a
5	197.5	9.3	365	2 JC7780	coxsackie- and ade
6	194.5	9.2	483	2 T17346	hypothetical prote
7	189	8.9	272	2 I48268	biliary glycoprote
8	188.5	8.9	1091	2 A58532	glial cell membran
9	188	8.9	341	2 JC1511	biliary glycoprote
10	186.5	8.8	458	2 JC1509	biliary glycoprote
11	183.5	8.6	629	2 A46500	ly-9.2 antigen - m
12	181.5	8.6	521	2 S34338	biliary glycoprote
13	180.5	8.5	347	2 S41638	T-cell surface gly
14	179.5	8.5	278	2 JC1507	biliary glycoprote
15	178.5	8.4	475	2 A54879	pregnancy-specific
16	173.5	8.2	344	1 RVRTC2	T-cell surface gly
17	173.5	8.2	853	1 IJBONC	neural cell adhesi
18	173	8.2	299	2 S56749	junctional adhesio
19	172.5	8.1	858	1 IJRTNC	neural cell adhesi
20	170.5	8.0	526	1 A32164	biliary glycoprote
21	170.5	8.0	1227	2 T23004	hypothetical prote
22	168.5	7.9	475	2 I76668	pregnancy-specific
23	168	7.9	761	1 IJHUNG	neural cell adhesi
24	166	7.8	458	2 S68177	C-CAM2a protein is
25	166	7.8	458	2 S23969	cell-adhesion mole
26	166	7.8	519	2 A44783	ecto-ATPase precu
27	166	7.8	1091	1 IJCHNL	neural cell adhesi
28	164	7.7	464	2 C30127	transmembrane carc
29	163.5	7.7	725	2 JE0100	neural cell adhesi

ALIGNMENTS

RESULT 1 -

RWHUC2

T-cell surface glycoprotein CD2 precursor - human

N:Alternate names: E rosette receptor; erythrocyte receptor; erythrocyte-binding protein

C:Species: Homo sapiens (man)

C>Date: 31-Mar-1989 #sequence revision 31-Mar-1989 #text change 09-Jul-2004

C:Accession: A28967; A26486; B26486; A28416; A28023; S02232; A30430; S00829; A29874

R:Diamond, D.J.; Clayton, L.K.; Sayre, P.H.; Reinherz, E.L.

Proc. Natl. Acad. Sci. U.S.A. 85, 1615-1619, 1988

A:Title: Exon-intron organization and sequence comparison of human and murine T11 (CD2)

A:Reference number: A28967; MUID:88144486; PMID:2894031

A:Accession: A28967

A:Molecule type: DNA

A:Residues: 1-351 <DIA>

A:Cross-references: UNIPROT:P06729; GB:M19806; GB:J03622; GB:J03623; NID:g180079; PIDN:A

R:Sewell, W.A.; Brown, M.H.; Dunne, J.; Owen, M.J.; Crumpton, M.J.

Proc. Natl. Acad. Sci. U.S.A. 83, 8718-8722, 1986

A:Title: Molecular cloning of the human T-lymphocyte surface CD2 (T11) antigen.

A:Reference number: A26486; MUID:87041523; PMID:3490670

A:Accession: A26486

A:Molecule type: mRNA

A:Residues: 1-338,'M',340,'QOKTHCPLPLIKKDRNCLFQ' <SE1>

A:Accession: B26486

A:Molecule type: protein

A:Residues: 25-46,'X',50 <SE2>

R:Sewell, W.A.; Brown, M.H.; Dunne, J.; Owen, M.J.; Crumpton, M.J.

Proc. Natl. Acad. Sci. U.S.A. 84, 7256, 1987

A:Reference number: A28416

A:Contents: revision

A:Accession: A28416

A:Molecule type: mRNA

A:Residues: 333-351 <SE3>

R:Seed, B.; Aruffo, A.

Proc. Natl. Acad. Sci. U.S.A. 84, 3365-3369, 1987

A:Title: Molecular cloning of the CD2 antigen, the T-cell erythrocyte receptor, by a rap

A:Reference number: A28023; MUID:87204137; PMID:2437578

A:Accession: A28023

A:Molecule type: mRNA

A:Residues: 1-265,'Q',267-351 <SEE>

A:Cross-references: GB:M16445; NID:g178668; PIDN:AAA51738.1; PID:g178669

R:Sayre, P.H.; Chang, H.C.; Hussey, R.E.; Brown, N.R.; Richardson, N.E.; Spagnoli, G.; C

Proc. Natl. Acad. Sci. U.S.A. 84, 2941-2945, 1987

A:Title: Molecular cloning and expression of T11 cDNAs reveal a receptor-like structure

A:Reference number: S02292; MUID:87204243; PMID:2883656

A:Accession: S02292

A:Molecule type: mRNA

A:Residues: 1-338,'M',340,'QOKTHCPLPLIKKDRNCLFQ' <SA1>

A:Cross-references: GB:M16336; NID:g180093; PIDN:AAA51946.1; PID:g180094

A:Accession: A30430

A:Molecule type: protein

A:Residues: 25-43,152-163 <SA2>

R;Lang, G.; Wotton, D.; Owen, M.J.; Sewell, W.A.; Brown, M.H.; Mason, D.Y.; Crumpton, M.


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Db      127 G--VGNKKIQTLVLVKPSGIRCYVDGSE--BIGNDFKLCKPEKSGSLPLRYEQK-----177
Qy      188 LNDSRML-----LSPDQKVLITITRLMEDDDLYSCMWENPISQGRSLPVKLTIVYRRS 239
Db      178 LSDSQKLPTSLWLPMTSP--VLSVKNASAEYSGTYTCTVNRVGSQCL-LALDVPVPS 233
Qy      240 S-----LYIILSTGGIFLLVTLTVTCACWPKSPKQKLEKQNSLEYMDQNDRLKPEAD 294
Db      234 NRAFTIAGAVIGTLLALVLIALIVFC-CHK--KRREKYEKE-----VHDIR-----278
Qy      295 TLPRSGQERKNPMALYILKDKSPETEENPAPEPRSATP--GPPGYSVSPAVGRSP 351
Db      279 -----EDVPPPKSRSTARSYIGSNHSLGMSPSNM 311
Qy      352 G-----LPIRSARRYRSPARSPATGRTHSSPPRAPSPGRSR 389
Db      312 GYSKTYNQVPSSEDLERAPQSP-----TLPPAKVAAPNLSR 347

RESULT 6
T17346
hypothetical protein DKFZp586O1624.1 - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C:Accession: T17346
R:Duisterhoeft, A.; Lauber, J.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.
submitted to the Protein Sequence Database, September 1999
A:Reference number: Z18727
A:Accession: T17346
A>Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-483 <DUE>
A:Cross-references: UNIPROT:Q9UF14; EMBL:AL117666
A:Experimental source: adult uterus; clone DKFZp586O1624
C:Genetics:
A:Note: DKFZp586O1624.1

Query Match          9.2%; Score 194.5; DB 2; Length 483;
Best Local Similarity 21.5%; Pred. No. 0.00011;
Matches 83; Conservative 55; Mismatches 155; Indels 93; Gaps 13;

Qy      55 VQYSTSSDRPVVKWQLKRDKPVTVVQSIGTGVIGTLRPDYRRIKLF---ENGSLLLSD 111
Db      8  LCAATGHPNPQIAWQ--KDG-----GTDFFAARER-RMHVMPDDDDVFVITD 51
Qy     112 LQLADECTYVEVETSIDDTFTGKTKINTLVDPVPIRPOVLVASTVTLLELSEAFLLNCSHE 171
Db     52 VKIDDDAGV-----SCTAQNSAGSISANATLVLETSLVPLEDRVVSGETVALOCKAT 107
Qy     172 NGTKPSYTWLKDGPLLNDSRMLLSPDQKVLITITRLMEDDDLYSCMWENPISQGRSLPV 231
Db     108 GNPPPRITWFGDRPLSLTERHHLTDPDQLLVQNVVAEDAGRYTCMSNTLGTERRA---164
Qy     232 KITVYRRSIIYILSTG-----GIF-----LLVTLTVTCACWPKSPKQKQKLEK 275
Db     165 -----HSQLSVLPAAGCRKDGKTGVGIFTIYVSSIVLTSVLWVCIIYQTRKKSE-----213
Qy     276 QNSLEYMDQNDRLKPEADTLPRSGQERKNPMALYILKDKSPETE---ENPAPSPRSA 332
Db     214 -----EYSVTNTDFTVVPDPVPSYLSQGTLSDRQETVTVRTEGGFQANGHIESNGVCPRDA 269
Qy     333 TE-PGPPGYSVSPAVGRSPGL-----PIRSARR-----360
Db     270 SHFPEPDTHSVACRQPKLCAGSAYHKPEKAMEKASGTGPHKMEHGGRVVCSDCNTEVD 329
Qy     361 -YPRSPARSPATGRTHSSPPRAPSP 385
Db     330 CYSRGQAFHPQPVSRDQAQPSAPNGP 355

RESULT 7
I48268
biliary glycoprotein - mouse

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C;Species: Mus musculus (house mouse)
 C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004
 C;Accession: J48268
 R;Nedellec, P.; Dvekelier, G.S.; Daniels, E.; Turbide, C.; Chow, B.; Basile, A.A.; Holmes J. Virol. 68, 4525-4537, 1994
 A;Title: Bgp2, a new member of the carcinoembryonic antigen-related gene family, encoded A;Reference number: A53995; MUID:94267915; PMID:8207827
 A;Accession: J48268
 A;Status: preliminary; translated from GB/EMBL/DBJ
 A;Molecule type: mRNA
 A;Residues: 1-272 <RES>
 A;Cross-references: UNIPROT:Q8R1N5; EMBL:X76085; NID:9511020; PIDN:CAA53699.1; PID:9511020
 C;Genetics:
 A;Gene: Bgp2
 C;Superfamily: biliary glycoprotein; carcinoembryonic antigen precursor amino-terminal homology <CEAN>
 C;Keywords: glycoprotein
 F;1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
 F;159-216/Domain: immunoglobulin homology <IMM>
 Query Match 8.9%; Score 189; DB 2; Length 272;
 Best Local Similarity 25.4%; Pred. No. 0.00012; Mismatches 100; Indels 48; Gaps 9;
 Matches 66; Conservative 46;
 QY 24 LLIQTDPLEGYNITSPVRLIHGTGKSAISV-----QYSSSTSSDRPVVKWQ 70
 DB 24 LLASWSPTTAQVTVMAFPLHAAGNNVILVYNNMKGVSAFSAFVHKGSTTSTNAEIVRFV 83
 QY 71 LKRDKPVTVQSGIGTEVIGTLRPDRIRLRFENGSLLLDLQLADEGTVEVEISITDDT 130
 DB 84 TGTNKTIK-----GPVHSGRETLYNSGLLIQRTVMKDTGVYTIIE--MTDQN 128
 QY 131 F-----TGKNTINLTVDPISRPQVLASTVLESEAPLNCSEHGKTPSYTWLKDQK 185
 DB 129 YRRRVLTGQ-----FHVHKPVTPQSLQVNTITVKEL-DSVLTLCUSKD-RQAHIHWIFNND 182
 QY 186 PLNDSRMLLSPDKQVITITVLMEDDDLYSCWVENPISQGRSLPVKITVYRRSSLYI-- 243
 DB 183 TLLITERMTTSQAGLILKIDPIKEDAGEYQCEISNPNVSKRSNIKLEIVFDSTYDISD 242
 QY 244 -----ILSTG-----GIFLLVTL 256
 DB 243 VPVIAVITGAVAGVILIAGL 262
 RESULT 8
 A58532
 glial cell membrane glycoprotein LIG-1 precursor - mouse
 C;Species: Mus musculus (house mouse)
 C;Date: 11-Apr-1997 #sequence_revision 11-Apr-1997 #text_change 09-Jul-2004
 C;Accession: A58532
 R;Suzuki, Y.; Sato, N.; Tohyama, M.; Wanaka, A.; Takagi, T.
 J. Biol. Chem. 271, 22522-22527, 1996
 A;Title: cDNA cloning of a novel membrane glycoprotein that is expressed specifically in A;Reference number: A58532; MUID:96394313; PMID:8798419
 A;Accession: A58532
 A;Status: preliminary; translated from GB/EMBL/DBJ
 A;Molecule type: mRNA
 A;Residues: 1-1091 <SUZ>
 A;Cross-references: UNIPROT:P70193; GB:D78572; NID:g1545806; PIDN:BAAL1416.1; PID:g1545806
 F;36-61/Domain: proteoglycan amino-terminal homology <PAH>
 F;71-94/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR1>
 F;95-117/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR2>
 F;118-141/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>
 F;142-165/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR4>
 F;166-189/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR5>
 F;191-213/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR6>
 F;214-237/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR7>
 F;238-261/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR8>
 F;262-285/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR9>
 F;286-309/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR10>
 F;310-333/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR11>
 F;334-357/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR12>
 F;358-381/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR13>

F;385-408/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR14>
 F;409-432/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR15>
 F;440-485/Domain: proteoglycan carboxyl-terminal homology <PCH>

Query Match 8.9%; Score 188.5; DB 2; Length 1091;
 Best Local Similarity 21.1%; Pred. No. 0.00073;
 Matches 79; Conservative 56; Mismatches 122; Indels 117; Gaps 16;

QY 45 GTVGKSALLSVQSSSTSSDRPVVKQLKRDKPVTVVQSGIGTEVIGTLRPDRIRLRF-- 102
 DB 615 GTTAR-----LECAATGHPNPQIAWQ--KDG-----GTFPFAARER-RHVMV 653
 QY 103 -ENGSLLLDLQLADEGTVEVEISITDDTFTGKNTINLTVDPISRPQVLV-ASTTVLEL 160
 DB 654 PDDVFFITDKIDDMGVY-----SCTAQSAGSVSANILTV-LETPSLAVPLEDRVTV 708
 QY 161 SEAFTLNCSHENGKTPSYTWLKGKPLNDSRMLLSPDKQVLTITVLMEDDDLYSCWVE 220
 DB 709 GETVAFQCKATGSPTRITWLGKGRPLSLTERHHFTPGNQLLVQNNMIDDAGRYTCMS 768
 QY 221 NPISQGRSLPVKITVYRRSLSYLSTG-----GIF-----LLVTLTVTCACWK 264
 DB 769 NPLGTERA-----HSQSLILPTPGCKKDGTTGIFTIAVVCISLVLSLVVVCIIYQ 819
 QY 265 PSKRKQK-----KLEKQNSLE-----YMDQN----- 285
 DB 820 TRKSEYSVNTDEITVPPDPSYLSQGTLSDRQETVVRTEGSHQANGHIESNGVCLR 879
 QY 286 DDLKPEADTLPRSGQER-----KNPMALYILKDKD-----SPETE 322
 DB 880 DPSLFEVDIHSITCRQPKLCVGTREPMKVKTEKADRTAAPTHTAHSGVASCDCSTDTA 939
 QY 323 ENPAPERSATEPG 336
 DB 940 YHPQVPRDSGGQG 953

RESULT 9

JC1511

biliary glycoprotein G - mouse

C;Species: Mus musculus (house mouse)

C;Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 09-Jul-2004

C;Accession: JC1511

R;McCuagig, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.

Gene 127, 173-183, 1993

A;Title: Expression of the Bgp gene and characterization of mouse colon biliary glycopro

A;Reference number: JC1505; MUID:93273228; PMID:8500759

A;Accession: JC1511

A;Molecule type: DNA

A;Residues: 1-341 <MCC>

A;Cross-references: UNIPROT:Q61353; GB:X67282

C;Comment: This protein is expressed at the cell surface and plays a determinant role in

A;Gene: Bgpg

C;Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termin

C;Keywords: glycoprotein; receptor

F;1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>

F;75-124/Domain: immunoglobulin homology <IMM1>

F;159-216/Domain: immunoglobulin homology <IMM2>

F;71,89,104,153,195/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 8.9%; Score 188; DB 2; Length 341;

Best Local Similarity 25.2%; Pred. No. 0.00018;

Matches 64; Conservative 45; Mismatches 115; Indels 30; Gaps 8;

QY 95 YRDIRLFENGSLLLDLQLADEGTVEVEISITDDTF-TGKNTINLTVDPISRPQVLVA 153

DB 95 YSGREIIVNSGLLFQMITKMDMGVYTLD--MTDENVRRTQATVRFVHQVPTQPLQVT 152

QY 154 STTVLESEAFTLNCSHENGKTPSYTWLKGKPLNDSRMLLSPDKQVLTITVLMEDDD 213

DB 153 NTTVKEL-DSVTLTCL-SNDIGANIOFLNFSQSLQLTERMTLSONNSILRIDPIKREDAG 210

Qy 214 LYSCHVENPISQGRSLPVKITYRRSSLYII-----LSTG-----GIFLLVTLVTC 260
Db 211 EYQCEISNPVSRSSNSIKLDI-----IDPTOGGLSDGALAGIVIGVAGVALIAGL 263
Qy 261 ACWPKSRKKQKLEKQNSLEYWQNDRLKPEADTLPRSGQERKNPMALYILKDKOSPE 320
Db 264 AYFLYSRKSGGSDQRLTEKHPSTSNHNPSONSP-----NKVDDVAYTVLNFNSQOP 318
Qy 321 TEENPAPEPRATE 334
Db 319 NRPTSAPSSPRATE 332

RESULT 10
JC1509
biliary glycoprotein E - mouse
C/Species: Mus musculus (house mouse)
C/Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 09-Jul-2004
C/Accession: JC1509
R/McCuaig, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.
Gene 127, 173-183, 1993
A/Title: Expression of the Bgp gene and characterization of mouse colon biliary glycoprotein
A/Reference number: JC1505; MUID:93273228; PMID:8500759
A/Molecule type: mRNA
A/Status: preliminary
A/Residues: 1-458 <MCC>
A/Cross-references: UNIPROT:Q61351; GB:X67280
C/Comment: This protein is expressed at the cell surface and plays a determinant role in
C/Genetics:
A/Gene: Bgpe
C/Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termin
C/Keywords: glycoprotein; receptor
F:1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
F:160-219/Domain: immunoglobulin homology <IMM1>
F:254-303/Domain: immunoglobulin homology <IMM2>
F:339-396/Domain: immunoglobulin homology <IMM3>
F:87,104,148,199,206,210,226,258,290,294,304,333,375/Binding site: carbohydrate (Asn) (C

Query Match 8.8%; Score 186.5; DB 2; Length 458;
Best Local Similarity 27.4%; Pred. No. 0.00032;
Matches 52; Conservative 38; Mismatches 83; Indels 17; Gaps 6;
Qy 73 RDKPVTVQSIGTEVIGTLR----PDVDRRLRFENGSLLSLDQLADEGYEVEISITD 128
Db 69 KGNPVSTNAEIVHQVTGNTKTTGPAHSGRTVYVNSGSLLRQTVTKDTGYTIE--MTD 126
Qy 129 DTP-TGERTINLTVDVPISRPOVLVASTTVLELSEAFITLNC-SHENGTKPSYTWLKDGP 186
Db 127 ENFRTEATQGFVHPLLLKPNITSNNSNPVEGDDSVSLTCDSTDPDNTYLSRNGES 186
Qy 187 LLNDSRMLLSPDKVLITRVLMEDDDLVSCWENPISQGRSLPVKITYRRSSLY----- 242
Db 187 LSEGDRLKLSGKNTLLNLTNRNDTGPVCTETNPVSNRSDPFLNI-----IYGPDT 241
Qy 243 IILSTGGIFL 252
Db 242 PIISPSDIYL 251

RESULT 11
A46500
Ly-9.2 antigen - mouse
C/Species: Mus musculus (house mouse)
C/Date: 18-Jun-1993 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
C/Accession: A46500
R/Sandrin, M.S.; Gumley, T.P.; Henning, M.M.; Vaughan, H.A.; Gonsz, L.J.; Trabani, J.A.;
J. Immunol. 149, 1636-1641, 1992
A/Title: Isolation and characterization of cDNA clones for mouse Ly-9.
A/Reference number: A46500; MUID:92373005; PMID:1506686
A/Accession: A46500
A/Status: preliminary
A/Molecule type: mRNA; protein
A/Residues: 1-629 <SAN>

A/Cross-references: GB:M84412; NID:g198931; PIDN:AAA39468.1; PID:g198932
A/Experimental source: C57BL/6
A/Note: sequence extracted from NCBI backbone (NCBIN:111651, NCBIP:111654)
C/Keywords: transmembrane protein

Query Match 8.6%; Score 183.5; DB 2; Length 629;
Best Local Similarity 26.9%; Pred. No. 0.00074;
Matches 59; Conservative 43; Mismatches 98; Indels 19; Gaps 8;
Qy 19 PFVYLLLIQDPLLEGVNITSPVRLIHGTGKSALLSVQYSTSSDRPVVKKQKRDKPV 78
Db 14 PLEFLM----GLGASGKETPTPTVISMGLGGSVTFSLNISKDAIEHII--WNC---PPKA 65
Qy 79 VVQSIGTEVIGTLRPDYDRIRLPENG-SILLSLQLADEGTYEVEISITDDTFTGEXTI 137
Db 66 LALVFPYKDIITLDKNGYGRKLVSEDDGYSLYMSNLTKSDSGSYHAQINQKRVILITNKEF 125
Qy 138 NLTVDDVPISRPOVLVASTTVLEL-SEAFITLNCSEHNGTKPS--YTWLKDGKPLNDSRML 194
Db 126 TLHIYEXLQRPQIIIVSVTPSDTDSCTFTLICT-VKGTKDSVQVSWTRE-----DTHLN 178
Qy 195 LSPQKVLITRVLMEDDDLVSCWENPISQGRSLPVKI 233
Db 179 TYDGSHTLRVSQVSCVCDPLPYTCKAWNPVSNQSNQSPVRI 217

RESULT 12

S34338
biliary glycoprotein F - mouse
N/Alternate names: mouse hepatitis virus (MHV) receptor glycoprotein
C/Species: Mus musculus (house mouse)
C/Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 09-Jul-2004
C/Accession: S34338; JC1510; A41093
R/Huang, D.C.; Huang, X.F.; Novel, M.; Novel, G.
submitted to the EMBL Data Library, July 1992
A/Description: A Clp-family gene present on the lactose-protease plasmid of lactococcus
A/Reference number: S34338
A/Accession: S34338
A/Status: preliminary
A/Molecule type: mRNA
A/Residues: 1-521 <HUA>
A/Cross-references: UNIPROT:Q61352; EMBL:X67281; NID:g312585; PIDN:CAA47698.1; PID:g3125
R/McCuaig, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.
Gene 127, 173-183, 1993
A/Title: Expression of the Bgp gene and characterization of mouse colon biliary glycoprotein
A/Reference number: JC1505; MUID:93273228; PMID:8500759
A/Accession: JC1510
A/Molecule type: mRNA
A/Residues: 1-81,'Q',83-141,'P',143-521 <MCC>
A/Cross-references: GB:X67281
R/Williams, R.K.; Jiang, G.S.; Holmes, K.V.
Proc. Natl. Acad. Sci. U.S.A. 88, 5533-5536, 1991
A/Title: Receptor for mouse hepatitis virus is a member of the carcinoembryonic antigen
A/Reference number: A41093; MUID:91288498; PMID:1648219
A/Accession: A41093
A/Status: preliminary
A/Molecule type: protein
A/Residues: 35-59 <WIL>
C/Comment: This protein is expressed at the cell surface and plays a determinant role in
C/Genetics:
A/Gene: Bgpf
C/Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termin
C/Keywords: glycoprotein; receptor
F:1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
F:160-219/Domain: immunoglobulin homology <IMM1>
F:254-303/Domain: immunoglobulin homology <IMM2>
F:339-396/Domain: immunoglobulin homology <IMM3>
F:87,104,148,199,206,210,226,258,290,294,304,333,375/Binding site: carbohydrate (Asn) (C

Query Match 8.6%; Score 181.5; DB 2; Length 521;
Best Local Similarity 27.4%; Pred. No. 0.00077;
Matches 52; Conservative 37; Mismatches 84; Indels 17; Gaps 6;

```
Qy 73 RDKPVTVQSIGTVEIGTLR-----PDYRDRIRLFPENGSLLSLDQLADEGTYVEISITD 128
Db 69 KGNPVSNAEIVHVTGNTKTTCPAHSGRBTYVNSGSLLIQRTVKDTGYTIE--MTD 126
Qy 129 DTF--TSGKTNLTVDVPISRPQVLVASTTVLSEAFSLNC--SHENGTPSYTLWKDGRP 186
Db 127 ENFRTEATVQFVHQLLKPNITNSNSNPVEGDDSVSLTCDSDYTDPDNITYLWSRNGES 186
Qy 187 LLNDSRMLSPDQKVLITRVLMEDDDLYSCHWENPISQGRSLPVKLTIVRRSLY----- 242
Db 187 LSEGRDLKSEGNNRTLLANVTRNDTGPYVCETRNPNVSNRSDPFSLNI-----IYGPDT 241
Qy 243 IILSTGGIFL 252
Db 242 PIISPSDIYL 251

RESULT 13
S41638
N;Alternate names: T-cell surface glycoprotein CD2 precursor - horse
C;Species: Equus caballus (domestic horse)
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 09-Jul-2004
C;Accession: S41638; S31578
R;Tavernor, A.S.; Kydd, J.H.; Bodian, D.L.; Jones, E.Y.; Stuart, D.I.; Davis, S.J.; Butc
Eur J. Biochem. 219, 969-976, 1994
A;Title: Expression cloning of an equine T-lymphocyte glycoprotein CD2 cDNA. Structure-b
A;Reference number: S41638; MUID:94155904; PMID:7906650
A;Accession: S41638
A;Molecule type: mRNA
A;Residues: 1-347 <TV>
A;Cross-references: UNIPROT:P37998; EMBL:X69884; NID:g1057; PIDN:CRA49511.1; PID:g1058
C;Superfamily: T-cell surface glycoprotein CD2
C;Keywords: Glycoprotein; surface antigen; T-cell; transmembrane protein
F;1-24/Domain: signal sequence #status predicted <SIG>
F;25-347/Product: T-cell surface glycoprotein CD2 #status predicted <MAT>

Query Match 8.5%; Score 180.5; DB 2; Length 347;
Best Local Similarity 26.8%; Pred. No. 0.00053;
Matches 80; Conservative 42; Mismatches 121; Indels 55; Gaps 14;

Qy 101 LFNGLSLLSLDQLADEGTYVEISITDDTFTGKTNLTVDVPISRPQVLVASTTVLEL 160
Db 81 VLKNGTLKIKHLERHEGTYKVDAYDSGKNVLETHLSLEVMVSKENISWSCTNT-- 137
Qy 161 SEATFLNCHENGTKPSYTLWKDGPLNDGRMLSPDQKVLITRVLMEDDDLYSCHWVE 220
Db 138 ---TLTCEVTGKTDFE---LK---LYNGRMIQSPRKIVIVYKRASNQIAS-FKCTAN 185
Qy 221 NPISQGRSLPVKITVYRRSSLYII--LSTGIFLLVTLVTVACWKPSKRRQKLEKONS 278
Db 186 NTVSEESSVVRCTEKGDLIYLISGICGGGIIILFVFLALL--IFYISKRK-----KQNS 238
Qy 279 LEYMDQNDRLKPEADTLPRSGEGRKNPMALYILKDKDSPETENPA---PEPRSATPE 335
Db 239 ----RRNDEELEIRAHKV--IISERGRKPHQI-----PGSTPLNPAASQPPPPSHRP 285
Qy 336 GPPGYSVSPAPVGRSPGLP-IRSAARYPRSPARSPAT-----GRTHSSPPR 380
Db 286 QAPGH--RPQVFGHRPLFPGRHVQHQQKRPAPTGTQAOHQKGPPLPRPRVQPKPR 341

RESULT 14
JC1507
Biliary glycoprotein C - mouse
C;Species: Mus musculus (house mouse)
C;Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 09-Jul-2004
C;Accession: JC1507
R;McCuag, K.; Rosenberg, M.; Nedellec, P.; Turbide, C.; Beauchemin, N.
Gene 127, 173-183, 1993
A;Title: Expression of the Bgp gene and characterization of mouse colon biliary glycopro
A;Reference number: JC1505; MUID:93273228; PMID:8500759
A;Accession: JC1507
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A;Molecule type: mRNA
A;Residues: 1-278 <MCC>
A;Cross-references: UNIPROT:Q61350; GB:X67278
C;Comment: This protein is expressed at the cell surface and plays a determinant role in
C;Genetics:
A;Gene: Bgpc
C;Superfamily: biliary glycoprotein; carcinoembryonic antigen precursor amino-terminal h
C;Keywords: glycoprotein; receptor
F;1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEAN>
F;1-138/Domain: carcinoembryonic antigen precursor amino-terminal homology <IMM1>
F;159-214/Domain: immunoglobulin homology <IMM2>
F;71,89,104,153,195/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;71,89,104,153,195/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 8.5%; Score 179.5; DB 2; Length 278;
Best Local Similarity 31.7%; Pred. No. 0.00046;
Matches 45; Conservative 29; Mismatches 63; Indels 5; Gaps 4;

Qy 95 YRDRIRLFPENGSLLSLDQLADEGTYVEISITDDTFTGKTNLTVDVPISRPQVLVA 153
Db 95 YSGREIITYNSGSLLFQMITMKDMGVTLTLD--MTDENYRRTQATVRFHVHQVTPQFLQVT 152
Qy 154 STTVLSEAFSLNCHENGTKPSYTLWKDGPLNDGRMLSPDQKVLITRVLMEDDDD 213
Db 153 NTTVKEL-DSVTLTCL--SNDIGANIQWLFNFSQSLQTLTERMTLSQNNLSILRIDPIKREDAG 210
Qy 214 LYSCHWENPISQGRSLPVKITV 235
Db 211 EYQCEISNPVSVRRSNSIKLDI 232

RESULT 15
A54879
Pregnancy-specific glycoprotein rncGM3 - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 19-Jan-1996 #sequence_revision 19-Jan-1996 #text_change 09-Jul-2004
C;Accession: A54879
R;Chen, H.; Chen, C.L.; Chou, J.Y.
Biochemistry 33, 9615-9626, 1994
A;Title: Characterization of two promoters of a rat pregnancy-specific glycoprotein gene
A;Reference number: A54879; MUID:94347731; PMID:8068638
A;Accession: A54879
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-475 <CHE>
A;Cross-references: UNIPROT:Q62664; GB:U09815; NID:g497254; PIDN:AAA56870.1; PID:g497255
A;Note: authors translated the codon GCT for residue 64 as Gly
C;Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termin
C;Keywords: glycoprotein
F;1-137/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEA1>
F;242-378/Domain: carcinoembryonic antigen precursor amino-terminal homology <CEA2>
F;399-456/Domain: immunoglobulin homology <IMM2>

Query Match 8.4%; Score 178.5; DB 2; Length 475;
Best Local Similarity 31.5%; Pred. No. 0.0011;
Matches 67; Conservative 26; Mismatches 105; Indels 15; Gaps 8;

Qy 29 DPLEGVNITSPVRLIHGTGCKSALLSVQYSTSSDRPVKWK-----QLKRDKPVTVVQSI 83
Db 269 DPVTSVPMIEPVRHAGEVESVLLYVH--NLPEALQTFNSYKGVSLKEFK--IAEYSI 324
Qy 84 GTEVIGTLRPDYRDRIRLFPENGSLLSLDQLADEGTYVEISITDDTFTGKTNLTVDV 143
Db 325 ATKSVFP-CPAHRGRATGYTNGSLLLQLDLTARDTGLYTL-VTLDSNSKISAPVQVTVHK 382
Qy 144 PISRPQVLVASTTV-LELSEAFSLNCHENGTKPSYTLWKDGPLNDGRMLSPDQKVL 202
Db 383 PVTQPFRLVTESTVTVQSSVVFT--CLSDN-TGVSIKRLFKQNQLQVTERMTLSPSNCQL 439
Qy 203 TITRVLMEDDDLYSCHWENPISQGRSLPVKITV 235
Db 440 RIHDVREDAGQYKCEAFNFISSKTSRPSVLAV 472
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Search completed: July 26, 2005, 16:14:14
Job time : 25.0385 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 26, 2005, 15:57:23 ; Search time 106.504 Seconds
(without alignments)
2000.159 Million cell updates/sec

Title: US-10-706-691-16

Perfect score: 2122

Sequence: 1 MKRERGALSRSRALRLAPF.....TAGVHIIRQDEAGPVEISA 416

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

UniProt_03:*

1: uniprot_sprot:*

2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2118	99.8	416	Q8N7I3	Q8N7I3 homo sapien
2	2114	99.6	416	Q67IP8	Q67IP8 homo sapien
3	1967	92.7	413	Q640R3	Q640R3 mus musculus
4	1478.5	69.7	367	Q6ZWL4	Q6ZWL4 homo sapien
5	854.5	40.3	165	Q8ND35	Q8ND35 homo sapien
6	282	13.3	450	Q6UXIO	Q6UXIO homo sapien
7	224	10.6	350	Q6SZ59	Q6SZ59 cercocebus
8	221	10.4	351	CD2 HUMAN	P05729 homo sapien
9	217.5	10.2	345	Q6SZ58	Q6SZ58 macaca assa
10	215.5	10.2	344	Q6SZ62	Q6SZ62 papio anubi
11	215	10.1	345	Q6SZ63	Q6SZ63 pan troglod
12	212.5	10.0	334	Q6SZ56	Q6SZ56 macaca neme
13	212.5	10.0	341	Q6SZ57	Q6SZ57 macaca arct
14	211	9.9	341	Q61354	Q61354 mus musculus
15	210.5	9.9	292	Q6UY47	Q6UY47 homo sapien
16	210.5	9.9	351	Q6SZ61	Q6SZ61 macaca fasc
17	207.5	9.8	351	Q6SZ60	Q6SZ60 macaca mula
18	202.5	9.5	278	Q92332	Q92332 mus musculus
19	202.5	9.5	340	Q61349	Q61349 mus musculus
20	199.5	9.4	1093	LIG1 HUMAN	Q96JAL homo sapien
21	197.5	9.3	352	Q91W66	Q91W66 mus musculus
22	197.5	9.3	365	1 CXAR MOUSE	P97792 mus musculus
23	197.5	9.3	365	Q8WMV3	Q8WMV3 bos taurus
24	197.5	9.3	365	Q9DBJ8	Q9DBJ8 mus musculus
25	196.5	9.3	319	A33 HUMAN	Q99795 homo sapien
26	196.5	9.3	387	Q86XK7	Q86XK7 homo sapien
27	196.5	9.3	412	Q8MZS4	Q8MZS4 homo sapien
28	194	9.1	328	Q6FHA8	Q6FHA8 homo sapien
29	193	9.1	328	O15430	O15430 homo sapien
30	189.5	8.9	235	O75296	O75296 homo sapien
31	189.5	8.9	345	Q9UIB8	Q9UIB8 homo sapien

```

32 189 8.9 272 2 Q8R1N5 Q8R1N5 mus musculus
33 188.5 8.9 1091 1 LIG1 MOUSE P70193 mus musculus
34 187.5 8.8 325 2 Q95751 Q95751 homo sapien
35 187.5 8.8 533 2 Q8NCB6 Q8NCB6 homo sapien
36 187 8.8 344 2 Q9R067 Q9R067 rattus norv
37 187 8.8 358 2 Q9R066 Q9R066 rattus norv
38 187 8.8 365 1 CXAR HUMAN P78310 homo sapien
39 186.5 8.8 327 2 Q96IQ7 Q96IQ7 homo sapien
40 186 8.8 310 2 Q68FQ2 Q68FQ2 rattus norv
41 186 8.8 337 2 P97288 P97288 cavia porce
42 186 8.8 341 2 Q61353 Q61353 mus musculus
43 186 8.8 365 2 Q6VAN5 Q6VAN5 bos taurus
44 186 8.8 372 2 Q6VAN6 Q6VAN6 bos taurus
45 186 8.8 388 2 Q8NC34 Q8NC34 homo sapien

```

ALIGNMENTS

RESULT 1

Q8N7I3

ID Q8N7I3 PRELIMINARY; PRT; 416 AA.

AC Q8N7I3;

DT 01-OCT-2002 (TrEMBLrel. 22, Created)

DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)

DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)

DE Hypothetical protein FLJ25530.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

OX NCBI_TaxID=9606;

RN [1]

RP SEQUENCE FROM N.A.

RC TISSUE=Brain;

RA Tashiro H., Yamazaki M., Watanabe K., Kumagai A., Itakura S.,

RA Fukuzumi Y., Fujimori Y., Komiyama M., Suzuki Y., Hata H.,

RA Nakagawa K., Mizuno S., Morinaga M., Kawamura M., Sugiyama T.,

RA Irie R., Otsuki T., Sato H., Nishikawa T., Sugiyama A., Kawakami B.,

RA Nagai K., Isogai T., Sugano S.,

RL Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.

DR EMBL; AK098396; BAC05297.1; -

DR InterPro; IPR007110; IG-like.

DR InterPro; IPR003598; IG_c2.

DR Pfam; PF00047; ig; 1.

DR SMART; SM00408; IGc2; 1.

DR PROSITE; PS50835; IG_LIKE; 1.

SQ SEQUENCE 416 AA; 45994 MW; 47120CA9A00EE1CF CRC64;

Query Match 99.8%; Score 2118; DB 2; Length 416;

Best Local Similarity 99.8%; Pred. No. 1.1e-114;

Matches 415; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKRERGALSRSRALRLAPFVLLLIQTDPLEGVNTSPVRLIHGTGKSALLSVQYSST 60

Db 1 MKRERGALSRSRALRLAPFVLLLIQTDPLEGVNTSPVRLIHGTGKSALLSVQYSST 60

Qy 61 SSDPVPVVKQLKRDKPVTVQSGICTEVTGTLRPYDRIRLRFENGSLLDQLADEGTY 120

Db 61 SSDPVPVVKQLKRDKPVTVQSGICTEVTGTLRPYDRIRLRFENGSLLDQLADEGTY 120

Qy 121 EVELSIIDDTFTGKTIINLTVDVPIRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180

Db 121 EVELSIIDDTFTGKTIINLTVDVPIRPQVLVASTTVLELSEAFNLCSHENGTKPSYTW 180

Qy 181 LKDGKPLNDSRMLLSPDKVLTITRVLMEDDDDLYSCMVENPISQGRSLPKVITVYRRSS 240

Db 181 LKDGKPLNDSRMLLSPDKVLTITRVLMEDDDDLYSCMVENPISQGRSLPKVITVYRRSS 240

Qy 241 LYIILSTGGIFLLVTLVTVCACWKPSRKQKLEKQNSLEYMDQNDRLKPEADTLPRSG 300

Db 241 LYIILSTGGIFLLVTLVTVCACWKPSRKQKLEKQNSLEYMDQNDRLKPEADTLPRSG 300

Qy 301 EQERKNPMALYILKDKDPSPEENPAPEPRSPATPGPGYSPVAVPGSRPGLPIRSARR 360

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Db 301 EQERKNPMALYILKDKDSPETEENPAPEPRSPATEPGPGYVSVPVGRSPGLPIRSARR 360
Qy 361 YPRSPARSPATGRTHSSPPRAPSSPGRSRSASRSLRTRTAGVHIIRREQDEAGPVEISA 416
Db 361 YPRSPARSPATGRTHSSPPRAPSSPGRSRSASRSLRTRTAGVHIIRREQDEAGPVEISA 416

RESULT 2
ID Q67IP8 PRELIMINARY; PRT; 416 AA.
AC Q67IP8;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DE Hypothetical protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Liver;
RA Shen S., Moh M.C.;
RT "A gene related to human hepatocellular carcinoma.";
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY047587; AAQ93018.1; -.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00409; Ig; 2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG LIKE; 1.
KW Hypothetical protein.
SQ SEQUENCE 416 AA; 46055 MW; 7B88862298BEB4ABF CRC64;

Query Match 99.6%; Score 2114; DB 2; Length 416;
Best Local Similarity 99.5%; Pred. No. 1.9e-114; Indels 0; Gaps 0;
Matches 414; Conservative 2; Mismatches 0;

Qy 1 MKRERGALSASRALRALAPFYVLLLIQTDPLEGVNITSPVRLIHGTGKSAALLSVQYSST 60
Db 1 MERERGALSASRALRALAPFYVLLLIQTDPLEGVNITSPVRLIHGTGKSAALLSVQYSST 60
Qy 61 SSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRPDYRDRIRLFPENGSLLSLDQLADEGTY 120
Db 61 SSDRPVVKWQLKRDKPVTVVQSIGTEVIGTLRPDYRDRIRLFPENGSLLSLDQLADEGTY 120
Qy 121 EVEISITDDTFTGKTNLTVDVPISRPOVLVASTTVLESEAFTLNCSHENGTKPSYTW 180
Db 121 EVEISITDDTFTGKTNLTVDVPISRPOVLVASTTVLESEAFTLNCSHENGTKPSYTW 180
Qy 181 LKDGKPLNDSRMLLSPQKVLITITRVLMEDDDLSCMVENPISQGRSLPKVITVYRRSS 240
Db 181 LKDGKPLNDSRMLLSPQKVLITITRVLMEDDDLSCMVENPISQGRSLPKVITVYRRSS 240
Qy 241 LYIILSTGGIFLLVTLVTVCAWKPSPKQKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
Db 241 LYIILSTGGIFLLVTLVTVCAWKPSPKQKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
Qy 301 EOERKNPMALYILKDKDSPETEENPAPEPRSPATEPGPGYVSVPVGRSPGLPIRSARR 360
Db 301 EOERKNPMALYILKDKDSPETEENPAPEPRSPATEPGPGYVSVPVGRSPGLPIRSARR 360
Qy 361 YPRSPARSPATGRTHSSPPRAPSSPGRSRSASRSLRTRTAGVHIIRREQDEAGPVEISA 416
Db 361 YPRSPARSPATGRTHSSPPRAPSSPGRSRSASRSLRTRTAGVHIIRREQDEAGPVEISA 416
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RESULT 3

Q64OR3

ID Q64OR3 PRELIMINARY; PRT; 413 AA.

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AC Q64OR3;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DE 2900042E01Rik protein (Fragment).
GN Name=2900042E01Rik;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6; TISSUE=Brain;
PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heieh F.,
Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
Rana S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
Radzywinski A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
Krzywinski M.I., Skalak U., Smalusz D.E., Schnerch A., Schein J.E.,
Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6; TISSUE=Brain;
RA Director MGC Project;
RL Submitted (SEP-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC082537; AAH82537.1; -.
FT NON TER 1
SQ SEQUENCE 413 AA; 45665 MW; B6EFCAD6D2CA3C1 CRC64;

Query Match 92.7%; Score 1967; DB 2; Length 413;
Best Local Similarity 94.2%; Pred. No. 6.1e-106;
Matches 389; Conservative 10; Mismatches 12; Indels 2; Gaps 1;

Qy 6 GALSASRALRALAPFYVLLLIQTDPLEGVNITSPVRLIHGTGKSAALLSVQYSSTSDRP 65
Db 1 GALSASRALRALSPFYVLLLIQPVPLEGVNITSPVRLIHGTGKSAALLSVQYSSTSDKP 60
Qy 66 VVKWQLKRDKPVTVVQSIGTEVIGTLRPDYRDRIRLFPENGSLLSLDQLADEGYVEIS 125
Db 61 VVKWQLKRDKPVTVVQSIGTEVIGTLRPDYRDRIRLFPENGSLLSLDQLADEGYVEIS 120
Qy 126 ITDDTFTGKTNLTVDVPISRPOVLVASTTVLESEAFTLNCSHENGTKPSYTWLKDQK 185
Db 121 ITDDTFTGKTNLTVDVPISRPOVLVASTTVLESEAFTLNCSHENGTFPSYTWLKDQK 180
Qy 186 PLLNDSRMLLSPQKVLITITRVLMEDDDLSCMVENPISQGRSLPKVITVYRRSSLIIL 245
Db 181 PLLNDSRMLLSPQKVLITITRVLMEDDDLSCMVENPISQGRSLPKVITVYRRSSLIIL 240
Qy 246 STGGIFLLVTLVTVCAWKPSPKQKLEKQNSLEYMDQNDRLKPEADTLPRSGEQE 303
Db 241 STGGIFLLVTLVTVCAWKPSPKQKLEKQNSLEYMDQNDRLKSEADTLPRSGEQE 300
Qy 304 RKNPMALYILKDKDSPETEENPAPEPRSPATEPGPGYVSVPVGRSPGLPIRSARYPR 363
Db 301 RKNPMALYILKDKDSSEPDENPATEPRSTTEPGPGYVSVPVGRSPGLPIRSARYPR 360
Qy 364 SPARSPATGRTHSSPPRAPSSPGRSRSASRSLRTRTAGVHIIRREQDEAGPVEISA 416
Db 364 SPARSPATGRTHSSPPRAPSSPGRSRSASRSLRTRTAGVHIIRREQDEAGPVEISA 416
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Db 361 SPARSPATGRTHTPPRAPSPGSRSSSRSLRTAGVQIRQDESGQVEISA 413
RESULT 4
ID Q6ZWL4 PRELIMINARY; PRT; 367 AA.
AC Q6ZWL4;
DT 05-JUL-2004 (TremBLrel. 27, Created)
DT 05-JUL-2004 (TremBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TremBLrel. 27, Last annotation update)
DE Hypothetical protein FLJ16002.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Matsumoto K., Hirano M., Sano S., Nomura R., Yoshikawa Y.,
RA Matsumura Y., Moriya S., Chiba E., Momiyama H., Onogawa S.,
RA Kaeriyama S., Satoh N., Matsunawa H., Takahashi E., Kataoka R.,
RA Kuga N., Kuroda A., Saoh I., Kamata K., Takami S., Terashima Y.,
RA Watanabe M., Sugiyama T., Irie R., Otsuki T., Sato H., Ota T.,
RA Wakamatsu A., Ishii S., Yamamoto J., Isono Y., Kawai-Hio Y., Saito K.,
RA Nishikawa T., Kimura K., Yamashita H., Matsuo K., Nakamura Y.,
RA Sekine M., Kikuchi H., Kanda K., Wagatsuma M., Murakawa K.,
RA Kanehori K., Takahashi-Fujii A., Oshima A., Sugiyama A., Kawakami B.,
RA Suzuki Y., Sugano S., Nagahari K., Masuno Y., Nagai K., Isogai T.,
RA Submitted (JUL-2003) to the EMBL/GenBank/DBJ databases.
RL EMBL; AK122595; BAC85486.1; -.
DR GO; GO:0004872; F:receptor activity; IEA.
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR Pfam; PF00047; IG.1.
DR SMART; SM00409; IG.2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
KW Receptor.
SQ SEQUENCE 367 AA; 40456 MW; 35956FA245A408F0 CRC64;
Query Match 69.7%; Score 1478.5; DB 2; Length 367;
Best Local Similarity 84.7%; Pred. No. 9.5e-78;
Matches 305; Conservative 12; Mismatches 26; Indels 17; Gaps 4;
Qy 1 MKRERGALSRSALRLAPFYVLLIQTDPLEGVNIITSPVRLIHGTGKSAALLSVQYSST 60
Db 1 MKRERGALSRSALRLAPFYVLLIQTDPLEGVNIITSPVRLIHGTGKSAALLSVQYSST 60
Qy 61 SSDRPVVKWQKRDKPVTWVQSIGTEVIGTLRPDYDRIRLFENGSLLLSDQLADEGTY 120
Db 61 SSDRPVVKWQKRDKPVTWVQSIGTEVIGTLRPDYDRIRLFENGSLLLSDQLADEGTY 120
Qy 121 EVELISITDDFTGKTLINLTVDVPIRPOVLVASTTVLELSEAFILNCSEHNGTKPSYTW 180
Db 121 EVELISITDDFTGKTLINLTVDVPIRPOVLVASTTVLELSEAFILNCSEHNGTKPSYTW 180
Qy 181 LKDGKPLNDSRMLLSPDQKVLITRVLMDDEDDLYSCWENPISQGRSLPKVITVYRRSS 240
Db 181 LKDGKPLNDSRMLLSPDQKVLITRVLMDDEDDLYSCWENPISQGRSLPKVITVYRRSS 240
Qy 241 LYILSTGGIFLLVTLVTVCAWKPSKRRKKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
Db 241 LYILSTGGIFLLVTLVTVCAWKPSKRRKKLEKQNSLEYMDQNDRLKPEADTLPRSG 300
Qy 301 EQERKNPMALYI-----LKDQSDPETEENPAPEPRSA-TEPGPPGYSVSPAVPGR 349
Db 301 EQERKNPMALYI-----LKDQSDPETEENPAPEPRSA-TEPGPPGYSVSPAVPGR 349
Qy 299 ----QSIPSTIRSVGCEWKEALGDKENSSAGTLPDGLGASKGKEPEPASLASHSLPRR 354
Db 299 ----QSIPSTIRSVGCEWKEALGDKENSSAGTLPDGLGASKGKEPEPASLASHSLPRR 354
RESULT 5
Q8ND35
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Q8ND35 PRELIMINARY; PRT; 165 AA.
Q8ND35;
DT 01-OCT-2002 (TremBLrel. 22, Created)
DT 01-OCT-2002 (TremBLrel. 22, Last sequence update)
DT 01-OCT-2002 (TremBLrel. 22, Last annotation update)
DE Hypothetical protein DKFZp5470159 (Fragment).
GN Name=DKFZp5470159;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Bloeker H., Boscher M., Brandt P., Mewes H.W., Weil B., Wiemann S.;
RA Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.
RL EMBL; AL834419; CAD39081.1; -.
DR EMBL; AL834419; CAD39081.1; -.
KW Hypothetical protein.
FT NON TER 1
SQ SEQUENCE 165 AA; 18161 MW; 5052FA978C437486 CRC64;
Query Match 40.3%; Score 854.5; DB 2; Length 165;
Best Local Similarity 99.4%; Pred. No. 4.3e-42;
Matches 165; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
Qy 251 FLIVTLTVTCACWKPSKRRKKLEKQNSLEYMDQNDRLKPEADTLPRSGEQERKNPMAL 310
Db 1 FLIVTLTVTCACWKPSKRRKKLEKQNSLEYMDQNDRLKPEADTLPRSGEQERKNPMAL 59
Qy 311 YILKQSDPETEENPAPEPRSA-TEPGPPGYSVSPAVPGRSPGLPFRSARRYPSPARSPA 370
Db 60 YILKQSDPETEENPAPEPRSA-TEPGPPGYSVSPAVPGRSPGLPFRSARRYPSPARSPA 119
Qy 371 TGRTHSSPPRAPSPGSRSSASRTLRTAGVHIIRQDEAGPVEISA 416
Db 120 TGRTHSSPPRAPSPGSRSSASRTLRTAGVHIIRQDEAGPVEISA 165
RESULT 6
Q6UXIO PRELIMINARY; PRT; 450 AA.
AC Q6UXIO;
DT 05-JUL-2004 (TremBLrel. 27, Created)
DT 05-JUL-2004 (TremBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TremBLrel. 27, Last annotation update)
DE WLVK305.
GN ORFNames=UNC305;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
RA Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
RA Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
RA Vandlen R., Watanabe C., Wiewand D., Woods K., Xie M.H., Yansura D.,
RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
RA Godowski P.;
RP "The secreted protein discovery initiative (SPDI), a large-scale
RT effort to identify novel human secreted and transmembrane proteins: a
RT bioinformatics assessment."
RL Genome Res. 13:2265-2270(2003).
DR EMBL; AY358345; AA088711.1; -.
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_c2.
DR Pfam; PF00047; IG.1.
DR SMART; SM00409; IG; 3.
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SEQUENCE FROM N.A.
 RC MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong F.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
 RA Boak S.A., McWan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S.J., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalusz D.E.,
 RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,
 RT "Generation and initial analysis of more than 15,000 full-length human
 and mouse cDNA sequences."
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
 RN [9]
 RP X-RAY CRYSTALLOGRAPHY (2.5 ANGSTROMS) OF 25-206.
 RX MEDLINE=95086863; PubMed=7994575;
 RA Bodian D.L., Jones E.Y., Harlos K., Stuart D.I., Davis S.J.,
 RA "Crystal structure of the extracellular region of the human cell
 adhesion molecule CD2 at 2.5-A resolution."
 RL Structure 2:755-766 (1994).
 RN [10]
 RP STRUCTURE BY NMR OF 25-129.
 RX MEDLINE=94348865; PubMed=7915183; DOI=10.1016/0969-2126(93)90009-6;
 RA Withka J.M., Wyss D.F., Wagner G., Arulanandam A.R.N., Reinherz E.B.,
 RA Recny M.A.,
 RT "Structure of the glycosylated adhesion domain of human T lymphocyte
 glycoprotein CD2."
 RL Structure 1:69-81 (1993).
 RN [11]
 RP STRUCTURE BY NMR OF 25-129.
 RX MEDLINE=95381065; PubMed=7544493;
 RA Wyss D.F., Choi J.S., Li J., Knoppers M.H., Willis K.J.,
 RA Arulanandam A.R., Smolyar A., Reinherz E.L., Wagner G.,
 RT "Conformation and function of the N-linked glycan in the adhesion
 domain of human CD2."
 RL Science 269:1273-1278 (1995).
 RN [12]
 RP SCIENCE 269:1273-1278 (1995).
 RX MEDLINE=88039075; PubMed=2444890; DOI=10.1038/329842a0;
 RA Peterson A., Seed B.,
 RT "Monoclonal antibody and ligand binding sites of the T cell
 erythrocyte receptor (CD2)."
 RL Nature 329:842-846 (1987).
 RN [13]
 RP CD59-BINDING DATA.
 RX MEDLINE=92311658; PubMed=1377404;
 RA Hahn W.C., Menu E., Bothwell A.L.M., Sims P.J., Bierer B.E., and a
 RT "Overlapping but nonidentical binding sites on CD2 for CD58 and a
 second ligand CD59."
 RL Science 256:1805-1807 (1992).
 CC -!- FUNCTION: CD2 interacts with lymphocyte function-associated
 antigen (LFA-3) and CD48/ICAM1 to mediate adhesion between T cells
 and other cell types. CD2 is implicated in the triggering of T-
 cells, the cytoplasmic domain is implicated in the signaling
 function.
 CC -!- SUBUNIT: Interacts with CD2AP (By similarity).
 CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -!- SIMILARITY: Contains 1 immunoglobulin-like C2-type domain.
 CC -!- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -!- DATABASE: NAME=PRO; NCBI=101111; NIH.gov/protein/cd/cd2.htm.
 CC WWW="http://www.ncbi.nlm.nih.gov/protein/cd/cd2.htm".
 CC -----

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 or send an email to license@isb-sib.ch).
 CC -----
 DR EMBL; M16445; AAA51738.1; -
 DR EMBL; M14362; AAA35571.1; -
 DR EMBL; M16336; AAA51946.1; -
 DR EMBL; M19806; AAA53095.1; -
 DR EMBL; M19798; AAA53095.1; JOINED.
 DR EMBL; M19802; AAA53095.1; JOINED.
 DR EMBL; M19804; AAA53095.1; JOINED.
 DR EMBL; X07871; CAA30721.1; -
 DR EMBL; X07872; CAA30721.1; JOINED.
 DR EMBL; X07873; CAA30721.1; JOINED.
 DR EMBL; X07874; CAA30721.1; JOINED.
 DR EMBL; AL135798; CAC14840.1; -
 DR EMBL; BC033583; AAH33583.1; -
 DR PIR; A28967; RWUUC2.
 DR PDB; 1CDB; NMR; @=25-129.
 DR PDB; 1GVA; NMR; @=25-129.
 DR PDB; 1HNF; X-ray; @=25-206.
 DR PDB; 1L22; NMR; B=294-304.
 DR GlycoSuiteDB; P06729; -
 DR Genew; HGNC:1639; CD2.
 DR H-InvDB; HIX0000931; -
 DR MIM; 186990; -
 DR GO; GO:0005887; C:integral to plasma membrane; NAS.
 DR GO; GO:0005515; F:protein binding; IPI.
 DR GO; GO:0004872; F:receptor activity; NAS.
 DR GO; GO:0007166; P:cell surface receptor linked signal transdu. . .; TAS.
 DR GO; GO:0016337; P:cell-cell adhesion; NAS.
 DR GO; GO:0006917; P:induction of apoptosis; TAS.
 DR GO; GO:0001766; P:lipid raft polarization; TAS.
 DR GO; GO:0030101; P:natural killer cell activation; NAS.
 DR GO; GO:0030887; P:positive regulation of dendritic cell activ. . .; NAS.
 DR GO; GO:0045580; P:regulation of T-cell differentiation; NAS.
 DR GO; GO:0042110; P:T-cell activation; TAS.
 DR InterPro; IPR007110; Ig-like.
 DR Pfam; PF05790; CD2; 1.
 DR PROSITE; PS50835; IG LIKE; FALSE NEG.
 KW 3D-structure; Antigen; Cell adhesion; Glycoprotein;
 KW Immunoglobulin domain; Polymorphism; Repeat; Signal; T-cell;
 KW Transmembrane.
 FT SIGNAL 1 24
 FT CHAIN 25 351 T-cell surface antigen CD2.
 FT DOMAIN 25 209 Extracellular (Potential).
 FT TRANSMEM 210 235 Potential.
 FT DOMAIN 236 351 Cytoplasmic (Potential).
 FT DOMAIN 25 128 Ig-like V-type.
 FT DOMAIN 129 209 Ig-like C2-type.
 FT DOMAIN 61 75 LFA-3 (CD58) binding region 1.
 FT DOMAIN 106 120 LFA-3 (CD58) binding region 2.
 FT DOMAIN 282 338 Pro-rich.
 FT DOMAIN 139 203 By similarity.
 FT DISULFID 146 186 By similarity.
 FT CARBOHYD 89 N-linked (GLCNAc. . .) (Potential).
 FT CARBOHYD 141 141 N-linked (GLCNAc. . .) (Potential).
 FT CARBOHYD 150 150 N-linked (GLCNAc. . .) (Potential).
 FT VARIANT 266 266 Q -> H (in dbSNP:699738).
 FT FTID=VAR_017104.
 FT MUTAGEN 67 K->R: Loss of LFA-3 binding.
 FT MUTAGEN 70 Q->K: Loss of LFA-3 binding.
 FT MUTAGEN 110 Y->D: Loss of LFA-3 and CD59 binding.
 FT MUTAGEN 111 D->H: Loss of LFA-3 and CD59 binding.
 Query Match 10.4%; Score 221; DB 1; Length 351;
 Best Local Similarity 22.9%; Pred. No. 4.8e-05;
 Matches 85; Conservative 60; Mismatches 164; Indels 62; Gaps 12;

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QY 17 LAPFVYLLLIQTDPLEGWITSPVRLIHGTGKSAVSVQSSSTSDRPVVKQOLKRDKP 76
Db 8 VASFLIFNVSSKAGVSKETITNALE-TWGALGQDINLDIPSFQMSDDIDDIKWKTSK- 65
QY 77 VTVVQSIGTEVIGTLRPD-----YRDRIKLFENGSLLSLDIQLADEGTYEVEISITDDTF 131
Db 66 -----KKIAQFRKEKETFKEKDYKLFKNGTLKIKHLKTDQDIYKSVIYDTGKN 116
QY 132 TGEKINLTVDVPIRSRQVLVASTVLELSAFTLNCSHENGTKPSYTWLKDGPPLNDS 191
Db 117 VLEKIFDLKIQERVSKPKI---SWTCINT-----TLTCEVMNGTDPENLYQDGKHLKSQ 169
QY 192 RMLLSPPQKVLITIRVLMEDDDLYSCHVENPISQGRSLPVKITVYRRSSLYIILS-TGGI 250
Db 170 RVITHKWTTSLSAK-----FKTAGNKVSKSESSVEPVCPEKGLDIYLIIGICGG 220
QY 251 FLLVTLVTVCACWKPSKRKQKLEKQNSLEYMDQNDRLKPEADTLPRSGEQERKNPMAL 310
Db 221 SLLVMFVALLVFIYITKQKQRS-----RRNDELETRAH---RVATEERGRKPPQ 267
QY 311 YILKQDSPETENPAPRPSATE-----PQPGYSVS-----PAVPG-----RSPGLP 354
Db 268 IPASTPONPATSOHPPPGHRSQAPSHRPPPGHVRHQHPQKRPAPSGTQVHQKQKGP 327
QY 355 IRSARRYPRSP 365
Db 328 LPRPRVQKPP 338

RESULT 9
Q6S258 PRELIMINARY; PRT; 345 AA.
ID Q6S258 AC Q6S258
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DE 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Cluster of differentiation 2 (Fragment).
GN Name=CD2;
OS Macaca assamensis (Assam's macaque) (Assam's monkey).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopitheidae;
OC Cercopitheciniae; Macaca.
OX NCBI_TaxID=9551;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=15302161;
RA Damschroder M.M., Kozhich A.A., Woods R.M., Cheng L., Mullikin B.A.,
RA Wilson S.D., Ulbrandt N.D., Bachy C.M., Wu H., Suzich J.A.,
RA Kiener P.A., Dall'Acqua W.F., White W.I.;
RA "Analysis of human and primate CD2 molecules by protein sequence and
RT epitope mapping with anti-human CD2 antibodies.";
RL Mol. Immunol. 41:985-1000(2004).
DR EMBL; AY445039; AAR15886.1; -.
DR HSSP; P08921; 1A64.
DR GO; GO:0016021; C:integral to membrane; IEA.
DR GO; GO:0007155; P:cell adhesion; IEA.
DR InterPro; IPR008424; CD2.
DR InterPro; IPR007110; Ig-like.
DR Pfam; PF05790; C2-set; 1.
DR NON TER 345
SQ SEQUENCE 345 AA; 38952 MW; 063DDF110344542A7 CRC64;

Query Match 10.2%; Score 217.5; DB 2; Length 345;
Best Local Similarity 23.3%; Pred. No. 7.6e-05;
Matches 80; Conservative 54; Mismatches 148; Indels 61; Gaps 11;

QY 45 GTVCKSALLSVQYSSTSDRPVVKQOLKRDKPVTVVQSIGTEVIGTLRP-----DYRDR 99
Db 35 GALGQDIDLDIPSFQMSDDIDDIKWKTSK-----KKIAQFRKEKETFEEKDAY 84
QY 100 RLFENGSLLSLDIQLADEGTYEVEISITDDTFTEKTNLTVDVPIRSRQVLVASTVLE 159
Db 85 KLFKNGTLKIKHLKIHQDQSKVSIYDTGKGVLEKTFDLKIQERVSEPKI---SWTCIN 141
QY 160 LSEAFNLNCSHENGTKPSYTWLKDGPPLNDSRMLSPDQKVLITIRVLMEDDDLYSQW 219
Db 142 T-----TLTCEVMNGTDPENLYQDGKHLKSQRVITHKWTTSLSAK-----FKCTA 188
QY 220 ENPISQGRSLPVKITVYRRSSLYIILS-TGGIFLLVTLVTVCACWKPSKRKQKLEKQNS 278
Db 189 GNVKSKESRMETVSCPEKGLDIYLIIGICGGSLVMFVALLVFIYITKQKQRS----- 242
QY 279 LEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKQDSPETENPAPRPSATE----- 334
Db 243 -----QRNDELETRAH---RVATEERGRKHPQIPASTPONPAASQHPPPGHRSQAPSH 295
QY 335 -PQPGYSVS-----PAVPG-----RSPGLPIRSARRYPRSP 365
Db 296 RLPPGHRVHQHPQKRPAPSGTQVHQKGPPLPRPRVQKPP 338
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Db 85 KLFKNGTLKIKHLKIHQDQSKVSIYDTGKGVLEKTFDLKIQERVSEPKI---SWTCIN 141
QY 160 LSEAFNLNCSHENGTKPSYTWLKDGPPLNDSRMLSPDQKVLITIRVLMEDDDLYSQW 219
Db 142 T-----TLTCEVMNGTDPENLYQDGKHLKSQRVITHKWTTSLSAK-----FKCTA 188
QY 220 ENPISQGRSLPVKITVYRRSSLYIILS-TGGIFLLVTLVTVCACWKPSKRKQKLEKQNS 278
Db 189 GNVKSKESRMETVSCPEKGLDIYLIIGICGGSLVMFVALLVFIYITKQKQRS----- 242
QY 279 LEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKQDSPETENPAPRPSATE----- 334
Db 243 -----QRNDELETRAH---RVATEERGRKHPQIPASTPONPAASQHPPPGHRSQAPSH 295
QY 335 -PQPGYSVS-----PAVPG-----RSPGLPIRSARRYPRSP 365
Db 296 RLPPGHRVHQHPQKRPAPSGTQVHQKGPPLPRPRVQKPP 338

RESULT 10
Q6S262 PRELIMINARY; PRT; 344 AA.
ID Q6S262 AC Q6S262
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Cluster of differentiation 2 (Fragment).
GN Name=CD2;
OS Papio anubis (Olive baboon).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopitheidae;
OC Cercopitheciniae; Papio.
OX NCBI_TaxID=9555;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=15302161;
RA Damschroder M.M., Kozhich A.A., Woods R.M., Cheng L., Mullikin B.A.,
RA Wilson S.D., Ulbrandt N.D., Bachy C.M., Wu H., Suzich J.A.,
RA Kiener P.A., Dall'Acqua W.F., White W.I.;
RA "Analysis of human and primate CD2 molecules by protein sequence and
RT epitope mapping with anti-human CD2 antibodies.";
RL Mol. Immunol. 41:985-1000(2004).
DR EMBL; AY445035; AAR15882.1; -.
DR HSSP; P08921; 1A64.
DR GO; GO:0016021; C:integral to membrane; IEA.
DR GO; GO:0007155; P:cell adhesion; IEA.
DR InterPro; IPR008424; CD2.
DR InterPro; IPR007110; Ig-like.
DR Pfam; PF05790; C2-set; 1.
DR NON TER 344
SQ SEQUENCE 344 AA; 38916 MW; 063CF2A3869E5BA6 CRC64;

Query Match 10.2%; Score 215.5; DB 2; Length 344;
Best Local Similarity 23.3%; Pred. No. 9.8e-05;
Matches 80; Conservative 54; Mismatches 148; Indels 61; Gaps 11;

QY 45 GTVCKSALLSVQYSSTSDRPVVKQOLKRDKPVTVVQSIGTEVIGTLRP-----DYRDR 99
Db 35 GALGQDIDLDIPSFQMSDDIDDIKWKTSK-----KKIAQFRKEKETFEEKDAY 84
QY 100 RLFENGSLLSLDIQLADEGTYEVEISITDDTFTEKTNLTVDVPIRSRQVLVASTVLE 159
Db 85 KLFKNGTLKIKHLKIHQDQSKVSIYDTGKGVLEKTFDLKIQERVSEPKI---SWTCIN 141
QY 160 LSEAFNLNCSHENGTKPSYTWLKDGPPLNDSRMLSPDQKVLITIRVLMEDDDLYSQW 219
Db 142 T-----TLTCEVMNGTDPENLYQDGKHLKSQRVITHKWTTSLSAK-----FKCTA 188
QY 220 ENPISQGRSLPVKITVYRRSSLYIILS-TGGIFLLVTLVTVCACWKPSKRKQKLEKQNS 278
Db 189 GNVKSKESRMETVSCPEKGLDIYLIIGICGGSLVMFVALLVFIYITKQKQRS----- 242
QY 279 LEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKQDSPETENPAPRPSATE----- 334
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Db 243 ----RRNDELEIRAH---RVATEERGRKHQIPASTPONPAASQHPPPPGRHQAPSH 295
Qy 335 -PGPPGYSVS-----PAVPG-----RSPGLPIRSARYPRSP 365
Db 296 RLPFGHRVHQPKRPAPSGTVHQKGGPLPRPRVQPKPP 338

RESULT 11
Q6SZ63
ID Q6SZ63 PRELIMINARY; PRT; 345 AA.
AC Q6SZ63;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DE Cluster of differentiation 2 (Fragment).
GN Name=CD2;
OS Pan troglodytes (Chimpanzee).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.
OX NCBI_TaxID=9598;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=15302161;
RA Damschroder M.M., Kozhich A.A., Woods R.M., Cheng L., Mullikin B.A.,
RA Wilson S.D., Ulbrandt N.D., Bachy C.M., Wu H., Suzich J.A.,
RA Kiener P.A., Dall'Acqua W.F., White W.I.;
RT "Analysis of human and primate CD2 molecules by protein sequence and
RT epitope mapping with anti-human CD2 antibodies.";
RL Mol. Immunol. 41:985-1000(2004).
DR EMBL; AY445034; AARI5881.1; -.
DR HSP; P08921; IAG4.
DR GO; GO:0016021; C: integral to membrane; IEA.
DR GO; GO:0007155; P: cell adhesion; IEA.
DR InterPro; IPR008424; CD2.
DR InterPro; IPR007110; Ig-like.
DR Pfam; PF05790; C2-set; 1.
FT NON_TER 345 345
SQ SEQUENCE 345 AA; 38833 MW; 6B23BSAC3A57C3C7 CRC64;

Query Match 10.1%; Score 215; DB 2; Length 345;
Best Local Similarity 22.6%; Pred. No. 0.00011;
Matches 84; Conservative 60; Mismatches 165; Indels 62; Gaps 12;

Qy 17 LAPFVLLIOTDPLEGNITSPVRLHGTGKSSALLSVQYSSTSSDRPVVKWQKRDKP 76
Db 8 VASFLIFNVSKGAVSEITNALE-TWALGQDINLDIPFQMSDDIDDKWETSOK- 65
Qy 77 VTVQSIGTEVIGTLRPD-----YRDLRLFENGSLLSLDQLADEGTYVEISITDDTF 131
Db 66 -----KKIAQFRKEKTFKEDTYKLFKNGTLKIKHLKTDDQDIYKVSIVDTGKN 116
Qy 132 TGKNTINLTVDPIRPOVLVASTTVLESAFTLNCSHENGTPKPSYTLWKGKPLNDS 191
Db 117 VLEKIFDLKIQRVSKPKI---SWTCINT---TLTCEVMNGTPELNLQDGKHLKLSQ 169
Qy 192 RMLSPDQKVLITITVLMDDDLLSCMVENPISQGRSLPVKITVYRRSSLYIILS-TGGI 250
Db 170 RVITHKWTISAK-----FKTAGNKVSKESSEVPEVSCPEKGLDIYLIIGICGG 220
Qy 251 FLVTLTVTCACWPKSRKQKLEKQNSLEYMDQNDRLKPEADTLPRSGEQERKNPMAL 310
Db 221 SLLVVFALLVYITKRRKQRS-----RRNDELETRAH---RVATEERGRKHQ 267
Qy 311 YILKDKSPETEENPAPRSATE-----PGPPGYSVS-----PAVPG-----RSPGLP 354
Db 268 IPASTPONPAASQHPPPPGRHQAPSHRPPPGHVRVHQPKRPAPSGTVHQKGGPL 327
Qy 355 IRSARYPRSP 365
Db 328 LPRPRVQPKPP 338

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RESULT 12
Q6SZ56
ID Q6SZ56 PRELIMINARY; PRT; 334 AA.
AC Q6SZ56;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DE Cluster of differentiation 2 (Fragment).
GN Name=CD2;
OS Macaca nemestrina (Pig-tailed macaque).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopitheciidae;
OC Cercopitheciinae; Macaca.
OX NCBI_TaxID=9545;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=15302161;
RA Damschroder M.M., Kozhich A.A., Woods R.M., Cheng L., Mullikin B.A.,
RA Wilson S.D., Ulbrandt N.D., Bachy C.M., Wu H., Suzich J.A.,
RA Kiener P.A., Dall'Acqua W.F., White W.I.;
RT "Analysis of human and primate CD2 molecules by protein sequence and
RT epitope mapping with anti-human CD2 antibodies.";
RL Mol. Immunol. 41:985-1000(2004).
DR EMBL; AY445041; AARI5888.1; -.
DR HSP; P08921; IAG4.
DR GO; GO:0016021; C: integral to membrane; IEA.
DR GO; GO:0007155; P: cell adhesion; IEA.
DR InterPro; IPR008424; CD2.
DR InterPro; IPR007110; Ig-like.
DR Pfam; PF05790; C2-set; 1.
FT NON_TER 334 334
SQ SEQUENCE 334 AA; 37781 MW; EB5F8378B099D80F CRC64;

Query Match 10.0%; Score 212.5; DB 2; Length 334;
Best Local Similarity 24.0%; Pred. No. 0.00014;
Matches 83; Conservative 56; Mismatches 140; Indels 67; Gaps 14;

Qy 45 GTVGKSALLSVQYSSTSSDRPVVKWQKRDKPVTVQSIGTEVIGTLRP-----DYRDR 99
Db 25 GALGQDIDLDIPFQMSDDIDDKWETSOK-----KKIAQFRKEKTFEERDAY 74
Qy 100 RLFFENGSLLSLDQLADEGTYVEISITDDTFTEKNTINLTVDPIRPOVLVASTTVLE 159
Db 75 KLFKNGTLKIKHLKHQDQSVKYSIVDTGKGVLEKTFDLKIQRVSEPKI---SWTCIN 131
Qy 160 LSEFTLNCSHENGTPKPSYTLWKGKPLNDSRMLSPDQKVL---ITRVLMDDDLYS 216
Db 132 T---TLTCEVMNGTPELNLQDGK-----HVKLS--QRVITHKWTISAK-----FK 175
Qy 217 CMVENPISQGRSLPVKITVYRRSSLYIILS-TGGIFLLVTLTVTCACWPKSRKQKLEK 275
Db 176 CTAGNKVSKESSEVPEVSCPEKGLDIYLIIGICGGSLWVFALLVYITKRRKQRS--- 232
Qy 276 QNSLEYMDQNDRLKPEADTLPRSGEQERKNPMALYILKDKSPETEENPAPRSATE- 334
Db 233 -----RRNDELEIRAH---RVATEERGRKHQIPASTPONPAASQHPPPPGRHQ 282
Qy 335 -----PGPPGYSVS-----PAVPG-----RSPGLPIRSARYPRSP 365
Db 283 PSHRPLPGHVRVHQPKRPAPSGTVHQKGGPLPRPRVQPKPP 328

RESULT 13
Q6SZ57
ID Q6SZ57 PRELIMINARY; PRT; 341 AA.
AC Q6SZ57;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DE Cluster of differentiation 2 (Fragment).
GN Name=CD2;
OS Macaca arctoides (Stump-tailed macaque).

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Search completed: July 26, 2005, 16:12:57
Job time : 108.504 secs

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